

12

Technical Report 580

**A BIBLIOGRAPHY ON THE USE
OF INFORMATION THEORY
IN PSYCHOLOGY (1967-1981)**

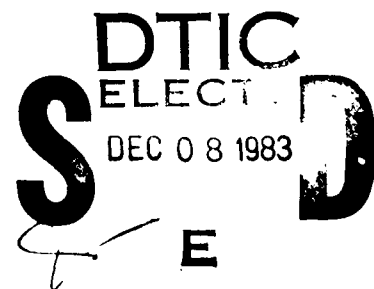
T. O. Kvålseth and M. N. Cila
University of Minnesota

AD-A135 641



U. S. Army

Research Institute for the Behavioral and Social Sciences
February 1983



DTIC FILE COPY

Approved for public release; distribution unlimited.

83 11 1

U. S. ARMY RESEARCH INSTITUTE FOR THE BEHAVIORAL AND SOCIAL SCIENCES

A Field Operating Agency under the Jurisdiction of the
Deputy Chief of Staff for Personnel

EDGAR M. JOHNSON
Technical Director

L. NEALE COSBY
Colonel, IN
Commander

Research accomplished under contract to
Department of the Army

University of Minnesota
Department of Mechanical Engineering

NOTICES

DISTRIBUTION: Primary distribution of this report has been made by ARI. Please address correspondence concerning distribution of reports to: U.S. Army Research Institute for the Behavioral and Social Sciences, ATTN: PERI-TST, 5001 Eisenhower Avenue, Alexandria, Virginia 22333.

FINAL DISPOSITION: This report may be destroyed when it is no longer needed. Please do not return it to the U.S. Army Research Institute for the Behavioral and Social Sciences.

NOTE: The findings in this report are not to be construed as an official Department of the Army position, unless so designated by other authorized documents.

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		641	READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER Technical Report 580	2. GOVT ACCESSION NO. A135	3. RECIPIENT'S CATALOG NUMBER	
4. TITLE (and Subtitle) A Bibliography on the Use of Information Theory in Psychology (1967-1981)		5. TYPE OF REPORT & PERIOD COVERED Final Technical 1 Aug 81 - 30 Dec 82	
7. AUTHOR(s) Kvalseth, T.O., and Cila, M.N.		6. PERFORMING ORG. REPORT NUMBER	
9. PERFORMING ORGANIZATION NAME AND ADDRESS University of Minnesota Department of Mechanical Engineering 111 Church St. S.E. Minneapolis, Minnesota 55455		8. CONTRACT OR GRANT NUMBER(s) MDA 903-81-C-0444	
10. CONTROLLING OFFICE NAME AND ADDRESS U.S. Army Research Institute ATTN: Dr. N.B. Mitchell, PERI-SF 5001 Eisenhower Ave., Alexandria, VA 22333		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS 2Q161102B74F	
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) —		12. REPORT DATE February 1983	
		13. NUMBER OF PAGES 73	
		15. SECURITY CLASS. (of this report) Unclassified	
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE —	
16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited.			
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report) —			
18. SUPPLEMENTARY NOTES —			
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Information processing in; ageing, attention, decision making, intelligence, language, learning, mathematics, music, neural information processing, perception, perceptual-motor skills, psychophysics, retention, semantics, speech, task analysis.			
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This bibliography contains 661 citations of published work using information theory in psychology. It covers the period 1967-1981 and updates a previous bibliography by Johnson (1967, 1970) for the period 1948-1966 in which 942 relevant citations were identified. The bibliography is indexed according to categories of application.			

Technical Report 580

A BIBLIOGRAPHY ON THE USE OF INFORMATION THEORY IN PSYCHOLOGY (1967-1981)

**T. O. Kvålseth and M. N. Cila
Department of Mechanical Engineering
University of Minnesota**

**Submitted by:
Robert M. Sasmor, Director
Basic Research**

**Approved by:
Edgar M. Johnson
Technical Director**

**U.S. ARMY RESEARCH INSTITUTE FOR THE BEHAVIORAL AND SOCIAL SCIENCES
5001 Eisenhower Avenue, Alexandria, Virginia 22333**

**Office, Deputy Chief of Staff for Personnel
Department of the Army**

February 1983

**Army Project Number
2Q161102B74F**

Basic Research

Approved for public release; distribution unlimited.

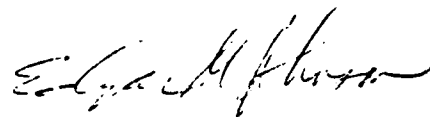
ARI Research Reports and Technical Reports are intended for sponsors of R&D tasks and for other research and military agencies. Any findings ready for implementation at the time of publication are presented in the last part of the Brief. Upon completion of a major phase of the task, formal recommendations for official action normally are conveyed to appropriate military agencies by briefing or Disposition Form.

FOREWORD

Information theory has proven to be a fruitful paradigm for the evaluation of human performance in systems development. The value of the 1967, 1970 Information Theory Bibliographies by Johnson was limited only by the limitations of the period covered. This limitation has been assauged by the present publication which updates a researcher's most valuable tool, the gathering of critical references into one place.

This Technical Report extends and updates the previous bibliographies on Information Theory and thereby provides a convenient source of information from which researchers may proceed.

This report was sponsored by the Basic Research Office under contract number MDA 903-81-C-0444.



EDGAR JOHNSON
Technical Director, ARI and
Chief Psychologist, US Army

Accession For	
NTIS GRA&I	<input checked="checked" type="checkbox"/>
DTIC TAB	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	
By	
Distribution/	
Availability Codes	
Dist	Avail and/or Special
A-1	



A BIBLIOGRAPHY ON THE USE OF INFORMATION THEORY
IN PSYCHOLOGY (1967-1981)

CONTENTS

	Page
INTRODUCTION	1
SCOPE	2
CONDUCT OF THE SEARCH	2
METHOD OF INDEXING	3
INDEX	4
FACSIMILE OF SUBJECT MATTER FILE	6
BIBLIOGRAPHY	10

INTRODUCTION

Since Shannon's first formal treatise on information theory was formulated more than three decades ago, the terminology and the various measures of information theory have become firmly ingrained in psychology. In fact, information theory provided the initial impetus to the information-processing approach to psychology, which has since tended to dominate considerations of the basic underlying behavioral processes. Although the initial high hope that information theory would offer some universal measure of human performance capacity has generally been abandoned, the various metrics of information theory have turned out to be useful as quantitative measures of human information processing in a variety of task situations. Evidence of the potential usefulness of information theory for psychological measurements is provided by the more than 1600 such applications reported to date.

In his survey covering the period 1948-1966, Johnson (1967, 1970)* lists a total of 942 studies using information-theory measures in psychology. The present bibliography identifies another 661 such publications for the period 1967-1981. As in Johnson's bibliography, the present one attempts to index the articles according to various areas of psychology.

* Johnson, E. M. A Bibliography on the Use of Information Theory in Psychology (1948-1966). U. S. Army Human Engineering Laboratories, Aberdeen Proving Ground, Maryland, December 1967; with an Addendum, December 1970.

SCOPE

This bibliography is limited to those articles that use information-theory measures in psychology, and does not include articles that simply use the verbal terminology of information theory. Of the various texts and survey articles dealing with information theory, only those discussing its relevance to psychology have been included in this bibliography. Also, of the substantial number of published studies using the well-known Fitts' paradigm and index of difficulty for motor control tasks, only those studies that have used the information-theoretic interpretation of this index and the "bits per movement" unit of measurement have been included in the bibliography.

A couple of additional restrictions were imposed. First, the literature search was confined to journals, texts and reports in the English language. Second, theses and dissertations were excluded.

CONDUCT OF THE SEARCH

Computerized literature searches served as the starting point for the project. The following databases (and coverage periods) were used:

PSYCINFO -- Psychological Abstracts Information Service
(1967-81)

SCISEARCH -- Science Citation Index and Current Contents
(1974-81)

INSPEC -- Information Services in Physics, Electrotechnology, Computers and Control (1969-81)

ERIC -- Educational Resources Information Center (1967-81)

NIMH (NCMHI) -- National Clearinghouse for Mental Health Information (1969-81)

Managements Contents (1974-81).

The reference lists of the relevant articles from the computerized search were then screened for additional articles. Furthermore, the laborious process of manual search was carried out for a number of journals, especially those journals that appeared from the computerized search and from Johnson's bibliography to have relatively many relevant articles. The annual conference proceedings of the Human Factors Society and the International Conference on Cybernetics and Society were also searched manually. Finally, some of the most frequent

contributors of relevant articles were contacted personally for possible additional publications of relevance.

METHOD OF INDEXING

An attempt was made to classify each article according to the most appropriate category or area of psychology. A similar set of major categories and subcategories as that used by Johnson has also been adopted for the present bibliography. Cross-coding between categories is used to some extent. Thus, for example, if some variant of Hick-Hyman's law of reaction time is used in Sternberg's memory scanning paradigm as part of a study of aging, the article is coded to three categories: "choice reaction time", "retention" and "age". In general, coding is primarily by area of application of information theory rather than by substantive content of an article.

When using the bibliography, consult the Index to identify descriptors of interest, then turn to Facsimile of Subject Matter File to locate the report accession numbers relevant to those descriptors.

INDEX

- Age
- Attention, Monitoring, Mental Load
- Clinical
- Decision Making, Prediction
- General
- Intelligence
- Language
 - General
 - Information Measurements
- Learning
 - Concepts
 - Other
 - Verbal
- Mathematics
 - Correlation, Association
 - General
 - Sampling, Computation
 - Tables
- Miscellaneous
- Music
- Neural Information Processing
- Perception
 - Absolute Judgment
 - Concept Identification, Attainment
 - Miscellaneous
 - Pattern Recognition
 - Verbal Recognition
 - Visual Search

Perceptual-Motor Skills

Choice Reaction Time

General

Handedness, Bimanual Movements

Keying

Miscellaneous

Positioning Movements

S-R Compatibility

Tracking

Preference

Psychophysics

Retention

Other

Verbal

Semantic and Subjective Information, Meaning

Small Groups (Structure)

Speech

Information Measurements

Miscellaneous

Perception

Task Analysis, Operational Systems

FACSIMILE OF SUBJECT MATTER FILE

Age

3, 90, 145, 159, 187, 189, 236, 273, 285, 286, 287, 424, 454,
457, 459, 460, 496, 568, 470, 575, 632

Attention, Monitoring, Mental Load

64, 83, 85, 87, 100, 107, 134, 154, 183, 195, 251, 252, 253,
254, 256, 257, 258, 259, 267, 269, 277, 284, 299, 303, 307,
314, 316, 331, 368, 369, 387, 438, 499, 506, 511, 552, 595,
596, 619, 621, 634, 635, 636, 657

Clinical

31, 40, 50, 97, 196, 197, 226, 228, 229, 238, 313, 321, 350,
351, 365, 382, 404, 490, 518, 527, 529, 530, 660

Decision Making, Prediction

27, 58, 60, 88, 98, 106, 108, 148, 161, 211, 227, 315, 336,
345, 357, 437, 458, 488, 548, 549, 555, 556, 557, 601, 641,
655

General

8, 25, 84, 89, 91, 93, 129, 130, 142, 158, 159, 169, 224, 249,
333, 353, 375, 389, 391, 399, 407, 487, 517, 519, 525, 603,
608, 622, 633, 637, 639, 642, 656

Intelligence

96, 176, 239, 240, 241, 402, 409, 429, 543, 554, 616

Language/General

84, 189, 236, 392, 406, 415, 416, 417, 496, 577, 633

Language/Information Measurements

190, 263, 578, 654

Learning/Concepts

109, 400, 423, 650

Learning/Other

2, 32, 53, 75, 92, 121, 127, 135, 138, 139, 175, 248, 318,
386, 436, 453, 521, 531, 569, 587, 612, 623, 625, 633

Learning/Verbal

52, 73, 221, 594

Mathematics/Correlation, Association

140, 410, 411, 412, 413, 501

Mathematics/General

44, 78, 177, 246, 261, 262, 3/6, 377, 378, 517, 583, 599, 623

Mathematics/Sampling, Computation

225, 316, 613, 617, 644

Mathematics/Tables

70

Miscellaneous

4, 9, 10, 14, 45, 69, 71, 80, 116, 133, 178, 180, 184, 188,
207, 231, 237, 260, 290, 355, 381, 408, 439, 449, 450, 480,
483, 539, 540, 551, 565, 576, 583, 624, 659

Music

81

Neural Information Processing

1, 47, 54, 128, 158, 160, 296, 380, 410, 411, 412, 425, 426,
444, 474, 489, 561, 562, 597, 598, 602

Perception/Absolute Judgment

38, 82, 97, 103, 104, 113, 114, 117, 118, 131, 143, 149, 150,
151, 152, 153, 201, 202, 244, 278, 311, 342, 360, 362, 364,
365, 366, 367, 373, 376, 377, 383, 393, 398, 403, 426, 431,
432, 433, 434, 491, 492, 521, 523, 533, 554, 558, 560, 612,
618, 651

Perception/Concept Identification, Attainment

15, 56, 74, 109, 120, 235, 266, 522, 650

Perception/Miscellaneous

5, 7, 41, 48, 119, 121, 154, 155, 156, 157, 172, 198, 209, 210,
225, 247, 352, 359, 368, 369, 371, 388, 414, 421, 422, 428, 446,
447, 448, 461, 477, 524, 546, 553, 579, 610, 614, 615, 621

Perception/Pattern Recognition

6, 11, 136, 208, 214, 215, 216, 217, 346, 348, 349, 358, 390,
452, 484, 485, 486, 502, 513, 566, 620, 647, 648, 649

Perception/Verbal Recognition

199

Perception/Visual Search

86, 90, 397, 581, 582, 638

Perceptual-Motor Skills/Choice Reaction Time

16, 17, 20, 28, 29, 30, 31, 33, 43, 49, 50, 51, 61, 62, 63,
64, 65, 66, 67, 68, 72, 76, 79, 107, 110, 118, 137, 166, 171,
174, 176, 179, 182, 186, 196, 197, 203, 213, 226, 228, 229,
230, 238, 239, 240, 241, 245, 264, 267, 270, 282, 287, 291,
292, 293, 294, 295, 299, 301, 313, 321, 326, 327, 338, 339,
340, 341, 347, 351, 354, 359, 360, 362, 374, 382, 402, 404,
418, 419, 420, 427, 430, 431, 432, 433, 434, 441, 455, 456,
462, 463, 465, 466, 471, 473, 490, 497, 498, 499, 506, 508,
509, 510, 518, 526, 529, 542, 543, 544, 547, 548, 570, 571,
572, 573, 574, 575, 580, 584, 585, 592, 627, 660, 661

Perceptual-Motor Skills/General

130, 163, 269, 384, 442, 453, 493, 503, 512, 567, 600, 616,
628, 629, 630, 631, 640

Perceptual-Motor Skills/Handedness, Bimanual Movements

12, 13, 144, 589, 590, 591

Perceptual-Motor Skills/Keying

77

Perceptual-Motor Skills/Miscellaneous

57, 60, 111, 112, 126, 146, 147, 168, 173, 183, 185, 194, 195,
218, 253, 254, 257, 265, 284, 298, 337, 338, 370, 401, 440,
457, 459, 460, 468, 469, 479, 482, 491, 536, 643, 660

Perceptual-Motor Skills/Positioning Movements

12, 13, 18, 22, 42, 43, 46, 55, 76, 77, 99, 115, 125, 144, 162,
164, 165, 181, 192, 193, 206, 219, 220, 223, 232, 233, 234,
251, 252, 256, 258, 259, 268, 270, 271, 272, 273, 274, 280,
283, 285, 286, 287, 288, 300, 301, 302, 304, 305, 306, 308,
309, 310, 312, 313, 317, 321, 322, 325, 329, 330, 343, 344,
351, 383, 385, 395, 457, 462, 463, 464, 465, 466, 475, 476,
481, 494, 504, 505, 510, 514, 515, 516, 520, 568, 589, 590,
591, 632, 545, 657

Perceptual-Motor Skills/S-R Compatibility

17, 197, 427, 455

Perceptual-Motor Skills/Tracking

34, 35, 36, 37, 46, 87, 277, 320, 323, 324, 394, 396, 472,
593, 595, 596, 611, 634, 635, 658

Preference

21, 41, 123, 545

Psychophysics

23, 24, 25, 26, 132, 167, 191, 242, 243, 250, 379, 426, 445,
451, 523, 548

Retention/Other

3, 20, 28, 61, 62, 63, 64, 65, 67, 68, 102, 141, 170, 245, 255,
281, 326, 327, 332, 334, 335, 361, 363, 387, 405, 427, 430,
432, 435, 441, 478, 497, 506, 507, 523, 526, 532, 534, 535,
536, 537, 538, 541, 559, 563, 564, 571, 572, 573, 592, 636

Retention/Verbal

19, 62, 66, 199

Semantic and Subjective Information, Meaning

59, 101, 102, 122, 124, 200, 211, 212, 222, 314, 495, 510,
626, 652, 653

Small Groups (Structure)

555, 646

Speech/Information Measurements

372

Speech/Miscellaneous

38, 500

Speech/Perception

39

Task Analysis, Operational Systems

94, 95, 96, 105, 204, 205, 275, 276, 289, 297, 319, 328, 443,
467, 470, 604, 605, 606, 607, 609, 616

1. Abeles, M. and Lass, Y. Transmission of information by the axon: II. The channel capacity. Biological Cybernetics, 1975, 19, 121-125.
2. Abrams, A. J. An evaluation of self-pacing in an auditory identification learning task. Canadian Journal of Psychology, 1969, 23, 366-383.
3. Adamowicz, J. K. and Hudson, B. R. Visual short-term memory, response delay, and age. Perceptual and Motor Skills, 1978, 46, 267-270.
4. Adams-Webber, J. A further test of the golden section hypothesis. British Journal of Psychology, 1978, 69, 439-442.
5. Agin, A. K. Effects of video bandwidth compression processing on operator performance in the mini-RPV system. Proceedings of the Annual Meeting of the Human Factors Society, 1980, 531-535.
6. Aiken, L. S. and Griffin, L. R. Visual and auditory processing of common pattern class structure. Perception & Psychophysics, 1972, 12, 492-496.
7. Allen, D. A. Filling time versus affective response to the activity that fills the time: independent effects on time judgment? Perceptual and Motor Skills, 1980, 51, 723-727.
8. Alluisi, E. A. Information and uncertainty: the metrics of communications. In B. K. DeGreene (Ed.), Systems Psychology. New York: McGraw-Hill, 1970, 171-206.
9. Ambler, B. A., Fisicaro, S. A. and Proctor, R. W. Information reduction, internal transformations, and task difficulty. Bulletin of the Psychonomic Society, 1977, 10, 463-466.
10. Anderson, J. and Hansford, B. C. An information processing procedure for scoring Flanders' interaction analysis categories. The Journal of Experimental Education, 1974, 43, 6-10.
11. Anderson, N. S. and Rosenfeld, A. Judgments of slope variability in visual patterns. Psychonomic Science, 1972, 29, 216-218.
12. Annett, J., Annett, M., Hudson, P. T. W. and Turner, A. The control of movement in the preferred and non-preferred hands. Quarterly Journal of Experimental Psychology, 1979, 31, 641-652.
13. Annett, J. and Sheridan, M. R. Effects of S-R and R-R compatibility on bimanual movement time. Quarterly Journal of Experimental Psychology, 1973, 25, 247-252.

14. Anthrobus, J. S. Information theory and stimulus-independent thought. British Journal of Psychology, 1968, 59, 423-430.
15. Arenberg, D. Equivalence of information in concept identification. Psychological Bulletin, 1970, 74, 355-361.
16. Audley, R. J. Some observations on theories of choice reaction time: tutorial review. In S. Kornblum (Ed.), Attention & Performance IV. New York: Academic Press, 1973, 509-545.
17. Avant, L. L., Bevan, W. and Wing, H. Effects of varying length of stimulus series and response scale upon response latency, response uncertainty, and transmitted information. Perception & Psychophysics, 1968, 3, 449-452.

18. Bach, T. M., Corlett, J. T. and Dickinson, J. An information analysis of speed and accuracy. Perceptual and Motor Skills, 1978, 47, 355-359.
19. Baddeley, A. D. Language habits, acoustic confusability, and immediate memory for redundant letter sequences. Psychonomic Science, 1971, 120-121.
20. Baddeley, A. D. and Ecob, J. R. Reaction time and short-term memory: implications of repetition effects for the high-speed exhaustive scan hypothesis. Quarterly Journal of Experimental Psychology, 1973, 25, 229-240.
21. Badia, P., Suter, S. and Lewis P. Preference for warned shock: information and/or preparation. Psychological Reports, 1967, 20, 271-274.
22. Bainbridge, L. and Sanders, M. The generality of Fitts's law. Journal of Experimental Psychology, 1972, 96, 130-133.
23. Baird, J. C. A cognitive theory of psychophysics: I. Information transmission, partitioning, and Weber's law. Scandinavian Journal of Psychology, 1970, II, 35-46.
24. Baird, J. C. A cognitive theory of psychophysics: II. Fechner's law and Stevens' law. Scandinavian Journal of Psychology, 1970, II, 89-102.
25. Baird, J. C. and Noma, E. Fundamentals of Scaling and Psychophysics. New York: Wiley, 1978.
26. Baird, J. C., Romer, D. and Stein, T. Test of a cognitive theory of psychophysics: size discrimination. Perceptual and Motor Skills, 1970, 30, 495-501.
27. Bandyopadhyay, R. Information for organizational decisionmaking--a literature review. IEEE Transactions on Systems, Man, and Cybernetics, 1977, SMC-7, 1-15.
28. Banks, W. P. and Fariello, G. R. Memory load and latency in recognition of pictures. Memory & Cognition, 1974, 2, 144-148.
29. Barber, P. J. and Folkard, S. Reaction time under stimulus uncertainty with response certainty. Journal of Experimental Psychology, 1972, 93, 138-142.
30. Baron, R. A., Byrne, D. and Kantowitz, B. H. Psychology: Understanding Behavior. Philadelphia, Pennsylvania: W. B. Saunders, 1977.
31. Barratt, S. Perceptual-motor performance related to impulsiveness and anxiety. Perceptual and Motor Skills, 1967, 25, 485-492.

32. Barresi, J., Robbins, D. and Shain, K. Role of distinctive features in the abstraction of related concepts. Journal of Experimental Psychology: Human Learning and Memory, 1975, 104, 360-368.
33. Bartz, A. E. Reaction time as a function of stimulus uncertainty on a single trial. Perception & Psychophysics, 1971, 9, 95-96.
34. Baty, D. L. Information-processing as influenced by the degree of response difficulty: a discrete tracking task. Proceedings of the 3rd Annual NASA University Conference on Manual Control, NASA SP-144, 1967, 157-164.
35. Baty, D. L. The role of task difficulty in a discrete tracking task. Psychonomic Science, 1967, 7, 283-284.
36. Baty, D. L. Effects of display gain on human operator information processing rate in a rate control tracking task. IEEE Transactions on Man-Machine Systems, 1969, MMS-10, 123-131.
37. Baty, D. L. Effects of display gain on human operator information processing rate in a rate control tracking task. Proceedings of the 5th Annual NASA University Conference on Manual Control, NASA Sp-215, 1970, 243-262.
38. Baumrin, J. A. Absolute judgments of the duration of a silent interval. American Psychological Association. Proceedings of the 77th Annual Convention, 1969, 4, 13-14.
39. Baumrin, J. A. Perception of the duration of a silent interval in nonspeech stimuli: A test of the motor theory of speech perception. Journal of Speech and Hearing Research, 1974, 17, 294-309.
40. Bazhin, E. F., Meerson, Y. A. and Tonkonogh, I. M. On distinguishing a visual signal from noise by patients with visual agnosia and visual hallucinations. Neuropsychologia, 1973, 11, 319-324.
41. Bear, G. Figural goodness and the predictability of figural elements. Perception & Psychophysics, 1973, 13, 32-40.
42. Beggs, W. D. A., Andrew, J. A., Baker, M. L., Dove, S. R., Fairclough, I. and Howarth, C. I. The accuracy of non-visual aiming. Quarterly Journal of Experimental Psychology, 1972, 24, 515-523.
43. Beggs, W. D. A., Graham, J. C., Monk, T. H., Shaw, M. R. W., and Howarth, C. I. Can Hick's Law and Fitts' Law be combined? Acta Psychologica, 1972, 36, 348-357.
44. Belis, M. and Guiasu, S. A quantitative-qualitative measure of information in cybernetic systems. IEEE Transactions on Information Theory, 1968, 14, 593-594.

45. Benjafield, J. and Adams-Webber, J. The golden section hypothesis. British Journal of Psychology, 1976, 67, 11-15.
46. Bergeron, H. P. Pilot response in combined control tasks. Human Factors, 1968, 10, 277-282.
47. Bergstrom, R. M. An entropy model of the developing brain. Developmental Psychobiology, 1969, 2, 139-152.
48. Berkhout, J. Information transfer characteristics of moving light signals. Human Factors, 1979, 21, 445-455.
49. Bernstein, I. H., Schurman, D. L. and Forester, G. Choice reaction time as a function of stimulus uncertainty, response uncertainty, and behavioral hypotheses. Journal of Experimental Psychology, 1967, 74, 517-524.
50. Berry, C., Gelder, M. G. and Summerfield, A. Experimental analysis of drug effects on human performance using information theory concepts. British Journal of Psychology, 1965, 56, 255-265.
51. Bevan, W. and Avant, L. L. Response latency, response uncertainty, information transmitted and the number of available judgmental categories. Journal of Experimental Psychology, 1968, 76, 394-397.
52. Biederman, I., Dumas, J. S. and Lachman, R. The effects of stimulus uncertainty and S-R transitional probability on paired-associate learning. Journal of Verbal Learning and Verbal Behavior, 1968, 7, 864-868.
53. Bloomfield, T. M. Reinforcement schedules: contingency or contiguity? In R. M. Gilbert and J. R. Millenson (Eds.), Reinforcement: Behavioral Analyses. New York: Academic Press, 1972, Ch. 8.
54. Bohn, G. A structure for associative information processing. Biological Cybernetics, 1978, 29, 193-200.
55. Book, W. J. and Hannema, D. P. Master-slave manipulator performance for various dynamic characteristics and positioning task parameters. IEEE Transactions on Systems, Man, and Cybernetics, 1980, SMC-10, 764-771.
56. Bornstein, R. and Grier, J. B. Pretask information in concept identification. Journal of Experimental Psychology, 1968, 78, 306-309.
57. Bottoms, D. J. The tractor driver's steering control task. Ergonomics, 1982, 25, 31-39.
58. Bowen, K. C. and Stratton, A. The information content of data in defined choice-situations. Journal of the Operational Research Society, 1981, 32, 79-89.

59. Branthwaite, A. Subjective value of information. British Journal of Psychology, 1975, 66, 275-282.
60. Breuer, H. Evaluation of the information throughput flux. Acta Psychologica, 1969, 31, 145-157.
61. Briggs, G. E. On the predictor variable for choice reaction time. Memory & Cognition, 1974, 2, 575-580.
62. Briggs, G. E. and Johnsen, A. M. On the nature of central processing in choice reactions. Memory and Cognition, 1972, 1, 91-100.
63. Briggs, G. E., Johnsen, A. M. and Shinar, D. Central processing uncertainty as a determinant of choice reaction time. Memory & Cognition, 1974, 2, 417-425.
64. Briggs, G. E., Peters, G. L. and Fisher, R. P. On the locus of the divided-attention effects. Perception & Psychophysics, 1972, 11, 315-320.
65. Briggs, G. E. and Shinar, D. On the locus of the speed/accuracy tradeoff. Psychonomic Science, 1972, 28, 326-328.
66. Briggs, G. E. and Swanson, J. M. Retrieval time as a function of memory ensemble size. Quarterly Journal of Experimental Psychology, 1969, 21, 185-191.
67. Briggs, G. E. and Swanson, J. M. Encoding, decoding, and central functions in human information processing. Journal of Experimental Psychology, 1970, 86, 296-308.
68. Briggs, G. E., Thomason, S. C. and Hagman, J. D. Stimulus classification strategies in an information reduction task. Journal of Experimental Psychology: General, 1978, 107, 159-186.
69. Broadbent, D. E. and Broadbent, M. H. P. The allocation of descriptor terms by individuals in a simulated retrieval system. Ergonomics, 1978, 21, 343-354.
70. Brown, M. B. The asymptotic standard errors of some estimates of uncertainty in the two-way contingency table. Psychometrika, 1975, 40, 291-296.
71. Buel, W. D. Evaluating mortgage loan risk. Journal of Applied Psychology, 1968, 52, 399-402.
72. Burns, M. and Moskowitz, H. Relationship between reaction time and number of choice alternatives in an overlearned task. Perceptual and Motor Skills, 1972, 35, 579-585.
73. Butler, B. E. and Merikle, P. M. Uncertainty and meaningfulness in paired-associate learning. Journal of Verbal Learning and Verbal Behavior, 1970, 9, 634-641.

74. Byers, J. L. and Davidson, R. E. Relevant and irrelevant information in concept attainment. Journal of Experimental Psychology, 1968, 76, 277-281.

75. Cantor, M. B. and Wilson, J. F. Temporal uncertainty as an associative metric: operant simulations of Pavlovian conditioning. Journal of Experimental Psychology: General, 1981, 110, 232-268.
76. Card, S. K. The model human processor: a model for making engineering calculations of human performance. Proceedings of the Annual Meeting of the Human Factors Society, 1981, 301-305.
77. Card, S. K., English, W. K. and Burr, B. J. Evaluation of mouse, rate-controlled isometric joystick, step keys, and text keys for text selection on a CRT. Ergonomics, 1978, 21, 601-613.
78. Carlton, A. G. On the bias of information estimates. Psychological Bulletin, 1969, 71, 108-109.
79. Cattlett, R. L. Application of Information Theory Concepts to Study Work Complex Versus Operator Action Time. Report USAMC-ITC-2-73-08, Red River Army Depot, Texarkana, Texas, March 1973, NTIS AD796286.
80. Ceder, A. Drivers' eye movements as related to attention in simulated traffic flow conditions. Human Factors, 1977, 19, 571-581.
81. Chamberlain, P. J. Pitch and duration in recognition of music-like structures. Perceptual and Motor Skills, 1974, 38, 419-428.
82. Chapanis, A. and Overbey, C. M. Absolute judgments of colors using natural color names. Perception & Psychophysics, 1971, 9, 356-360.
83. Chatterjee, A. The effect of distraction stress on information processing performance. Behaviorometric, 1973, 3, 74-83.
84. Cherry, C. On Human Communication, 3rd edition. Cambridge, Mass.: MIT Press, 1978.
85. Chiles, W. D. and Alluisi, E. A. On the specification of operator or occupational workload with performance-measurement methods. Human Factors, 1979, 21, 515-528.
86. Christ, R. E. Color research for visual displays. Proceedings of the Annual Meeting of the Human Factors Society, 1974, 542-546.
87. Cliff, R. C. Attention sharing in the performance of a dynamic dual task. IEEE Transactions on Systems, Man, and Cybernetics, 1973, SMC-3, 241-248.
88. Cohen, J., Chesnick, E. I. and Haran, D. A confirmation of the inertial - ψ effect in sequential choice and decision. British Journal of Psychology, 1972, 63, 41-46.

89. Cohen, J. and Christensen, I. Information and Choice. Edinburgh: Oliver & Boyd, 1970.
90. Cohen, J. and Meudell, P. Strategies of search. Acta Psychologica, 1968, 28, 322-343.
91. Cohen, J. and Whiston, T. Information and Uncertainty: Objective and Subjective Aspects. Interval Report, Department of Psychology, University of Manchester, England, 1970. Also in Bulletin de Psychologie, XXIII, 1969-1970, 189-196.
92. Cook, R. F. The effect of time, shock stimulation, and stimulus uncertainty on the non-associative GSR. Psychonomic Science, 1969, 15, 209-211.
93. Coombs, C. H., Dawes, R. M. and Tversky, A. Mathematical Psychology: An Elementary Introduction. Englewood Cliffs, New Jersey: Prentice-Hall, 1970.
94. Corley, M. R. Use of a pragmatic information measure as an aid in the design of interactive graphic displays. Transactions of the ASME, Journal of Engineering for Industry, 1976, 98, 118-123.
95. Corley, M. R. and Allan, J. J. Pragmatic information processing aspects of graphically accessed computer-aided design. IEEE Transactions on Systems, Man, and Cybernetics, 1976, SMC-6, 434-439.
96. Cousins, D. and Safford, R. R. Human channel capacity measures - a valuable personnel and selection tool? Proceedings of AIIE Annual Spring Conference, 1978, 76-82.
97. Crain, P., Goldstone, S. and Lhamon, W. T. Temporal information processing and psychopathology. Perceptual and Motor Skills, 1975, 41, 219-224.
98. Crawford, J. L. Task uncertainty, decision importance, and group reinforcement as determinants of communication processes in groups. Journal of Personality and Social Psychology, 1974, 29, 619-627.
99. Cremer, M. and Ashton, R. Motor performance and concurrent cognitive tasks. Journal of Motor Behavior, 1981, 13, 187-196.
100. Crossman, E. R. F. W., Cooke, J. E. and Beishow, R. J. Visual attention and the sampling of displayed information in process control. In E. Edwards and F. P. Lees (Eds.), The Human Operator in Process Control. London: Taylor & Francis, 1974, 25-50.
101. Crosson, F. J. Information theory and phenomenology. In F. J. Crosson and K. M. Sayre (Eds.), Philosophy and Cybernetics. Notre Dame: University of Notre Dame Press, 1967, 99-136.

102. Crosson, F. J. Memory, models, and meaning. In F. J. Crosson and K. M. Sayre (Eds.), Philosophy and Cybernetics. Notre Dame: University of Notre Dame Press, 1967, 183-202.
103. Cuddy, L. L. Training the absolute identification of pitch. Perception & Psychophysics, 1970, 8, 265-269.
104. Cuddy, L. L. Absolute judgment of musically-related pure tones. Canadian Journal of Psychology, 1971, 25, 42-55.

105. Dallimonti, R. Human factors in control center design. Instrumentation Technology, May 1976, 39-44.
106. Dalrymple-Alford, E. C. A model for assessing multiple-choice test performance. The British Journal of Mathematical and Statistical Psychology, 1970, 23, Part 2, 199-203.
107. Damos, D. L. and Wickens, C. D. Dual-task performance and the Hick-Hyman law of choice reaction time. Journal of Motor Behavior, 1977, 9, 209-215.
108. Davis, D. J. Structure of the environment and strategies for acquiring information. Journal of Experimental Psychology, 1967, 73, 227-231.
109. Davis, J. K. and Klausmeier, H. J. Cognitive style and concept identification as a function of complexity and training procedures. Journal of Educational Psychology, 1970, 61, 423-430.
110. Debecker, J. and Desmedt, J. E. Maximum capacity for sequential one-bit auditory decisions. Journal of Experimental Psychology, 1970, 83, 366-372.
111. Deininger, R. L. Rotary dial and thumbwheel devices for manually entering sequential data. IEEE Transactions on Human Factors in Electronics, 1967, HFE-8, 227-231.
112. Deininger, R. L., Billington, M. J. and Michaels, S. E. Operator speed and accuracy with literal and combination codes for processor input. IEEE Transactions on Man-Machine Systems, 1968, MMS-9, 10-14.
113. Desor, J. A. and Beauchamp, G. K. The human capacity to transmit olfactory information. Perception & Psychophysics, 1974, 16, 551-556.
114. Dickinson, J. Proprioceptive Control of Human Movement. London: Lepus Books, 1974.
115. Dickinson, J., Medhurst, C. and Whittingham, N. Warm-up and fatigue in skill acquisition and performance. Journal of Motor Behavior, 1979, 11, 81-86.
116. Didday, R. L. Information processing constraints on the organization of visual pathways. Proceedings of the International Conference on Cybernetics and Society, 1975, 106-107.
117. Diespecker, D. D. The effects of anchoring and practice on the learning of bidimensional vibrotactile signals. Perception & Psychophysics, 1968, 4, 102-104.
118. Doherty, M. E. Information and discriminability as determinants of absolute judgment choice reaction time. Perception & Psychophysics, 1968, 3, 1-4.

119. Doherty, M. E. and Keeley, S. M. Stimulus dimensionality and temporal repetition. Perception & Psychophysics, 1973, 13, 60-64.
120. Dominowski, R. L. Requiring hypotheses and the identification of unidimensional, conjunctive, and disjunctive concepts. Journal of Experimental Psychology, 1973, 100, 387-394.
121. Donaldson, R. W. Communication via the auditory, tactile, and kinesthetic senses. IEEE Transactions on Information Theory, 1967, IT-13, 11-21.
122. Driscoll, J. M. and Corpolongo, M. J. Uncertainty estimation and the uncertainty-probability shift under information load. Behavioral Science, 1980, 25, 205-218.
123. Driscoll, J. M., Lanzetta, J. T. and McMichael, J. S. Preference for information under varying conditions of outcome uncertainty, intensity, and delay. Psychological Reports, 1967, 21, 473-479.
124. Driscoll, J. M. and Sturgeon, L. B. Supplementary Reports - Uncertainty (H) estimation. Journal of Experimental Psychology, 1969, 79, 565-567.
125. Drury, C. G. Application of Fitts' law to foot-pedal design. Human Factors, 1975, 17, 368-373.
126. Drury, C. G. and Corlett, E. N. Control of performance in a multi-element repetitive task. Ergonomics, 1975, 18, 279-298.

127. Eckerman, D. A. Uncertainty reduction and conditioned reinforcement. The Psychological Record, 1973, 23, 39-47.
128. Eckhorn, R., Grüsser, O.-J., Kröller, J., Pellnitz, K. and Pöpel, B. Efficiency of different neuronal codes: information transfer calculations for three different neuronal systems. Biological Cybernetics, 1976, 22, 49-60.
129. Edwards, E. Communication theory. In W. T. Singleton, R. S. Easterby and D. C. Whitfield (Eds.), The Human Operator in Complex Systems. London: Taylor & Francis, 1967, 39-53.
130. Edwards, E. Ergonomics in control. Proc. IEE, 1973, 120, 1181-1192.
131. Egeth, H. and Pachella, R. Multidimensional stimulus identification. Perception & Psychophysics, 1969, 5, 341-346.
132. Eisler, H. and Montgomery, H. On theoretical and realizable ideal conditions in psychophysics: magnitude and category scales and their relation. Perception & Psychophysics, 1974, 16, 157-168.
133. Engel, G. R. An investigation of visual responses to brief stereoscopic stimuli. Quarterly Journal of Experimental Psychology, 1970, 22, 148-166.
134. Ephrath, A. R., Tole, J. R., Stephens, A. T. and Young, L. R. Instrument scan - is it an indicator of the pilot's workload? Proceedings of the Annual Meeting of the Human Factors Society, 1980, 257-258.
135. Erlebacher, A. Differential GSR conditioning with a complex CS. Psychonomic Science, 1968, 12, 129-130.
136. Evans, S. H. Redundancy as a variable in pattern perception. Psychological Bulletin, 1967, 67, 104-113.

137. Falmagne, J. C. Stochastic models for choice reaction time with applications to experimental results. Journal of Mathematical Psychology, 1965, 2, 77-124.
138. Feldstein, J. H. Effects of uncertainty reduction, material rewards, and variety on children's choice behavior. Journal of Experimental Child Psychology, 1973, 15, 125-136.
139. Feldstein, J. H. and Witryol, S. L. The incentive value of uncertainty reduction for children. Child Development, 1971, 42, 793-804.
140. Fhanér, S. Information loss when ϕ is applied in non-normal cases. Scandinavian Journal of Psychology, 1967, 8, 127-131.
141. Fisher, D. F., Monty, R. A. and Perlmutter, L. C. Visual recognition memory for binary pictures: another look. Journal of Experimental Psychology: Human Learning and Memory, 1978, 4, 158-164.
142. Fitts, P. M. and Posner, M. I. Human Performance. Belmont, Calif.: Brooks/Cole, 1967.
143. Flowers, J. H. The effect of simultaneous and sequential presentation of stimulus dimensions on absolute judgment accuracy. Perception & Psychophysics, 1974, 15, 269-275.
144. Flowers, K. Handedness and controlled movement. British Journal of Psychology, 1975, 66, 39-52.
145. Fodor, K. Information theory and word association originality. Studia Universitatis Babes-Bolyai, 1969, 14, 39-43.
146. Folkard, S. and Greeman, A. L. Salience, induced muscle tension, and the ability to ignore irrelevant information. Quarterly Journal of Experimental Psychology, 1974, 26, 360-367.
147. Forrin, B. Naming latencies to mixed sequences of letters and digits. In P.M.A. Rabbitt and S. Dornic (Eds.), Attention and Performance V. New York: Academic Press, 1975, 345-356.
148. Fox, J. Making decisions under the influence of memory. Psychological Review, 1980, 87, 190-211.
149. Friedman, H. Absolute judgment of more than 32 categories (5 bits) with a unidimensional visual stimulus. Psychonomic Science, 1967, 8, 225-226.
150. Fulgosi, A., Bačun, D. and Žaja, B. Absolute identification of two-dimensional tones. Bulletin of the Psychonomic Society, 1975, 6, 484-486.
151. Fulgosi, A. and Bartolovic, B. Practice and some methodological problems in unidimensional information transmission. Perception & Psychophysics, 1971, 10, 283-285.

152. Fulgosi, A. and Zaja, B. Information transmission of 3.1 bits in absolute identification of auditory pitch. Bulletin of the Psychonomic Society, 1975, 6, 379-380.
153. Fullard, W., Snelbecker, G. E. and Wolk, S. Absolute judgments as a function of stimulus uncertainty and temporal effects: methodological note. Perceptual and Motor Skills, 1972, 34, 379-382.
154. Furst, C. J. Automatizing of visual attention. Perception & Psychophysics, 1971, 10, 65-70.

155. Garner, W. R. Information integration and form of encoding. In Coding and Processes in Human Memory, Proceedings of a Symposium Workshop, Woods Hole, Mass., August 1971. (Arthur W. Mellon & Edwin M. Martin, Eds.). Winston, Washington, D. C., 1972, 261-281.
156. Garner, W. R. and Flowers, J. H. The effect of redundant stimulus elements on visual discrimination as a function of element heterogeneity, equal discriminability, and position uncertainty. Perception & Psychophysics, 1969, 6, 216-220.
157. Garner, W. R. and Morton, J. Perceptual independence: definitions, models, and experimental paradigms. Psychological Bulletin, 1979, 72, 233-259.
158. Gatlin, L. L. Information Theory and the Living System. New York: Columbia University Press, 1972.
159. Gerathewohl, S. J. Psychophysiological effects of aging: developing a functional age index for pilots: I.A. survey of the pertinent literature. U. S. Department of Transportation; National Technical Information Service, Springfield, Virginia 22151, April 1977, 1-25.
160. Gestri, G. Information capacity of single cells in some sensory systems. Biological Cybernetics, 1976, 23, 157-160.
161. Gettys, C. F., Martin, D. W., Nawrocki, L. H. and Howell, W. C. Human evaluation of the diagnosticity of potential experiments. Journal of Experimental Psychology, 1970, 83, 25-31.
162. Glencross, D. J. The latency of aiming movements. Journal of Motor Behavior, 1976, 8, 27-34.
163. Glencross, D. J. Levels and strategies of response organization. In G. E. Stelmach and J. Requin (Eds.), Tutorials in Motor Behavior. Amsterdam: North-Holland Publishing Company, 1980, 551-566.
164. Glencross, D. J. and Anderson, G. A. Operator response factors in the location and control of foot pedals. Ergonomics, 1976, 19, 399-408.
165. Glencross, D. J. and Gould, J. H. The planning of precision movements. Journal of Motor Behavior, 1979, 11, 1-9.
166. Gottsdanker, R. The ubiquitous role of preparation. In G. E. Stelmach, and J. Requin (Eds.), Tutorials in Motor Behavior. Amsterdam, the Netherlands: North-Holland, 1980, 355-371.

167. Graf, V., Baird, J. C. and Glesman, G. An empirical test of two psychophysical models. Acta Psychologica, 1974, 38, 59-72.
168. Grandjean, E. Psychological and physiological reactions associated with repetitive tasks. Proceedings of the Annual Meeting of the Human Factors Society, 1979, 21-24.
169. Grandjean, E. Fitting the Task to the Man. London: Taylor & Francis, 1980.
170. Graves, R. E. Are more items identified than can be reported? Journal of Experimental Psychology: Human Learning and Memory, 1976, 2, 208-214.
171. Green, T.R.G., Sime, M.E. and Guest, D. J. Some types of error in a choice response task. Quarterly Journal of Experimental Psychology, 1972, 24, 149-158.
172. Gregson, R. A. M. Some properties of quadratic similarity judgements between four-dimensional stimuli. British Journal of Mathematical & Statistical Psychology, 1972, 25, 22-32.
173. Grice, G. R. Information-processing dynamics of human eyelid conditioning. Journal of Experimental Psychology: General. 1977, 106, 71-93.
174. Grice, G. R., Hunt, R. L., Kushner, B. A. and Morrow, C. Stimulus intensity, catch trial effects, and the speed-accuracy tradeoff in reaction time: a variable criterion theory interpretation. Memory & Cognition, 1974, 2, 758-770.
175. Grossberg, S. Embedding fields: a theory of learning with physiological implications. Journal of Mathematical Psychology, 1969, 6, 209-239.
176. Gruen, G. E. and Korte, J. Information processing in familially retarded and nonretarded children. American Journal of Mental Deficiency, 1973, 78, 82-88.
177. Guiasu, S. Information Theory with Applications. New York: McGraw-Hill, 1977.

178. Habu, Y. and Ono, S. Resistance to extinction as a function of uncertainty of reinforcement sequence. Psychologia, 1976, 19, 149-156.
179. Hale, D. J. Speed-error tradeoff in a three-choice serial reaction task. Journal of Experimental Psychology, 1969, 81, 428-435.
180. Halford, G. S. Children's ability to interpret transformations of a quantity, I: an operational system for judging combinations of transformations. Canadian Journal of Psychology, 1975, 29, 124-141.
181. Hancock, W. M., Langolf, G. and Clark, D. O. Development of standard data for stereoscopic microscope work. AIIE Transactions, 1973, 5, 113-118.
182. Hannes, M., Sutton, S. and Zubin, J. Reaction time: stimulus uncertainty with response certainty. The Journal of General Psychology, 1968, 78, 165-181.
183. Hanson, R. H., Payne, D. G., Shively, R. J. and Kantowitz, B. H. Process control simulation research in monitoring analog and digital displays. Proceedings of the Annual Meeting of the Human Factors Society, 1981, 154-158.
184. Harary, F. and Batell, M. F. The concept of negative information. Behavioral Science, 1978, 23, 264-270.
185. Harding, G. B., Stevens, E. E. and Marston, P. T. Rate of information processing and skin resistance. Journal of Experimental Psychology, 1973, 99, 306-313.
186. Harvey, N. Does intermodal equivalence exist between heteromodal stimulus dimensions or between stimulus values on those dimensions? Quarterly Journal of Experimental Psychology, 1973, 25, 476-491.
187. Harwood, E. and Naylor, G.F.K. Rates of information-transfer in elderly subjects. Australian Journal of Psychology, 1969, 21, 127-136.
188. Hashida, E., Yoshitani, N. and Tasaki, T. A study on the irregularity of the sequence of R-R intervals in chronic atrial fibrillation in man based on the time series analysis and the information theory. Japanese Heart Journal, 1978, 19, 839-851.
189. Hass, W. A. and Wepman, J. M. Constructional variety in the spoken language of school children. The Journal of Genetic Psychology, 1973, 122, 297-308.
190. Hass, W. A. and Wepman, J. M. Information theory measures of grammatical goodness-of-fit. Journal of Psycholinguistic Research, 1972, 1, 175-181.

191. Hatze, H. A teleological explanation of Weber's law and the motor unit size law. Bulletin of Mathematical Biology, 1979, 41, 407-425.
192. Hayes, K. C. and Marteniuk, R. G. Dimensions of motor task complexity. In G. E. Stelmach (Ed.), Motor Control. New York: Academic Press, 1976, 201-228.
193. Hedges, D. G. and Dickinson, J. Interactions between instructions for speed versus accuracy and performance. Perceptual and Motor Skills, 1979, 48, 459-464.
194. Helm, W. R. Psychometric measures of task difficulty under varying levels of information load. Proceedings of the Annual Meeting of the Human Factors Society, 1981, 518-521.
195. Helm, W. R., Fishburne, R. P. and Waag, W. L. The effects of verbal interference on psychomotor performance under dual task conditions. Proceedings of the Annual Meeting of the Human Factors Society, 1974, 471-475.
196. Hemsley, D. R. Attention and information processing in schizophrenia. British Journal of Social & Clinical Psychology, 1976, 15, 199-209.
197. Hemsley, D. R. Stimulus uncertainty, response uncertainty, and stimulus-response compatibility as determinants of schizophrenic reaction time performance. Bulletin of the Psychonomic Society, 1976, 8, 425-427.
198. Hepler, S. P. Selective information processing. Memory & Cognition, 1977, 5, 449-452.
199. Hershenov, M. Stimulus structure, cognitive structure, and the perception of letter arrays. Journal of Experimental Psychology, 1969, 79, 327-335.
200. Heslin, R., Blake, B. and Rotton, J. Information search as a function of stimulus uncertainty and the importance of the response. Journal of Personality and Social Psychology, 1972, 23, 333-339.
201. Hicks, R. E., Miller, G. W., Gaes, G. and Bierman, K. Concurrent processing demands and the experience of time-in-passing. American Journal of Psychology, 1977, 90, 431-446.
202. Hicks, R. E., Miller, G. W. and Kinsbourne, M. Prospective and retrospective judgments of time as a function of amount of information processed. American Journal of Psychology, 1976, 89, 719-730.
203. Hilgendorf, E. L. Information processing, practice and spare capacity. Australian Journal of Psychology, 1967, 19, 241-251.

204. Hill, A. B. The measurement of work variety. International Journal of Production Research, 1970, 8, 25-39.
205. Hill, A. B. Extraversion and variety-seeking in a monotonous task. British Journal of Psychology, 1975, 66, 9-13.
206. Hill, J. W. Comparison of seven performance measures in a time-delayed manipulation task. IEEE Transactions on Systems, Man, and Cybernetics, 1976, SMC-6, 286-295.
207. Hirsch, K. A. Compensation for information bias in estimates of relative redundancy. Psychological Reports, 1976, 39, 490.
208. Hochberg, J. and Fallon, P. Perceptual analysis of moving patterns. Science, 1976, 194, 1081-1083.
209. Hock, H. and Petrusek, J. Verbal interference with perceptual classification: the effect of semantic structure. Perception & Psychophysics, 1973, 13, 116-120.
210. Hodge, M. H. Competing responses and the processing of irrelevant information. Memory & Cognition, 1973, 1, 124-128.
211. Hoge, R. D. Confidence in decision as an index of perceived accuracy of information processing. Psychonomic Science, 1970, 18, 351-353.
212. Hoge, R. D. and Lanzetta, J. T. Effects of response uncertainty and degree of knowledge on subjective uncertainty. Psychological Reports, 1968, 22, 1081-1090.
213. Hohle, H. H. and Gholson, B. Choice reaction times with equally and unequally probable alternatives. Journal of Experimental Psychology, 1968, 78, 95-98.
214. Homa, D. Abstraction of ill-defined form. Journal of Experimental Psychology: Human Learning and Memory, 1978, 4, 407-416.
215. Homa, D. and Hibbs, B. Prototype abstraction and the rejection of extraneous patterns. Bulletin of the Psychonomic Society, 1978, 11, 1-4.
216. Homa, D., Cross, J., Cornell, D., Goldman, D. and Schwartz, S. Prototype abstraction and classification of new instances as a function of number of instances defining the prototype. Journal of Experimental Psychology, 1973, 101, 116-122.
217. Homa, D. and Vosburgh, R. Category breadth and the abstraction of prototypical information. Journal of Experimental Psychology: Human Learning and Memory, 1976, 2, 322-330.

218. Hottman, S. B. Selection of remotely labeled switch functions during dual task performance. Proceedings of the Annual Meeting of the Human Factors Society, 1981, 240-242.
219. Howarth, C. I. and Beggs, W. D. A. Discrete movements. In D. H. Holding (Ed.), Human Skills. Chichester, England: Wiley, 1981, 91-117.
220. Howarth, C. I., Beggs, W. D. A. and Bowden, J. M. The relationship between speed and accuracy of movement aimed at a target. Acta Psychologica, 1971, 35, 207-218.
221. Howe, E. S. Transformation, associative uncertainty, and free recall of sentences. Journal of Verbal Learning and Verbal Behavior, 1970, 9, 425-431.
222. Howell, W. C., Gettys, C. F., Martin, D. W., Nawrocki, L. H. and Johnston, W. A. Evaluation of diagnostic tests by individuals and small groups. Organizational Behavior and Human Performance, 1970, 5, 211-237.
223. Howells, R. A., Knight, Jr., J. L., Weiss, S. M. and Kak, A. V. Micro-timesharing within a single task. Proceedings of the Annual Meeting of the Human Factors Society, 1979, 523-526.
224. Huchingson, R. D. New Horizons for Human Factors in Design. New York: McGraw-Hill, 1981.
225. Huff, F. W. and Piantianida, T. P. The effect of group size on group information transmitted. Psychonomic Science, 1968, 11, 365-366.
226. Huntley, Jr., M. S. Effects of alcohol, uncertainty and novelty upon response selection. Psychopharmacologia, 1974, 39, 259-266.
227. Hussy, W. Information processing and human sequential predictive behaviour. Acta Psychologica, 1975, 39, 351-367.
228. Hutt, S. J. and Fairweather, H. Information processing during two types of EEG activity. Electroencephalography and Clinical Neurophysiology, 1975, 39, 43-51.
229. Hutt, S. J., Newton, J. and Fairweather, H. Choice reaction time and EEG activity in children with epilepsy. Neuropsychologia, 1977, 15, 257-267.
230. Hyman, R. and Umiltà, C. The information hypothesis and non-repetitions. In W. G. Koster (Ed.), Acta Psychologica 30 Attention and Performance II. Amsterdam: North-Holland Publishing Company, 1969, 37-53.

231. Inouye, T., Yagasaki, A., Takahashi, H. and Shinosaki, K. The dominant direction of interhemispheric EEG changes in the linguistic process. Electroencephalography and Clinical Neurophysiology, 1981, 51, 265-275.
232. Jagacinski, R. J. A test of Fitts' law with moving targets. Human Factors, 1980, 22, 225-233.
233. Jagacinski, R. J., Hartzell, E. J., Ward, S. and Bishop, K. Fitts' law as a function of system dynamics and target uncertainty. Journal of Motor Behavior, 1978, 10, 123-131.
234. Jagacinski, R. J., Repperger, D. W., Moran, M. S., Ward, S. L. and Glass, B. Fitts' Law and the microstructure of rapid discrete movements. Journal of Experimental Psychology: Human Perception and Performance, 1980, 6, 309-320.
235. Janke, M. Effect of stimulus and instructional variables in an ambiguous concept-attainment task. Journal of Experimental Psychology, 1972, 93, 21-29.
236. Jarvella, R. J. and Sinnott, J. Contextual constraints on noun distributions to some English verbs by children and adults. Journal of Verbal Learning and Verbal Behavior, 1972, 11, 47-53.
237. Jategaonkar, R. V., Raol, J. R. and Balakrishna, S. Determination of model order for dynamical system. IEEE Transactions on Systems, Man, and Cybernetics, 1982, SMC-12, 56-62.
238. Jennings, J. R., Wood, C. C. and Lawrence, B. E. Effects of graded doses of alcohol on speed-accuracy tradeoff in choice reaction time. Perception & Psychophysics. 1976, 19, 85-91.
239. Jensen, A. R. Bias in mental testing. New York: The Free Press, 1980, 686-714.
240. Jensen, A. R. Reaction time and intelligence. In M. P. Friedman, J. P. Das and N. O'Connor (Eds.), Intelligence and Learning. New York: Plenum, 1981.
241. Jensen, A. R. and Munro, E. Reaction time, movement time, and intelligence. Intelligence, 1979, 3, 121-126.
242. John, I. D. Stimulus discriminability in the magnitude estimation and category rating of loudness. Perception & Psychophysics, 1969, 6, 78-80.
243. John, I. D. The properties of distributions of magnitude estimates of loudness and softness. Scandinavian Journal of Psychology, 1971, 12, 261-270.
244. John, I. D. Information processing in absolute and comparative judgment tasks. In P. M. A. Rabbitt and S. Dornic (Eds.), Attention and Performance V. New York: Academic Press, 1975, 722-732.

- 245. Johnsen, A. M. and Briggs, G. E. On the locus of display load effects in choice reactions. Journal of Experimental Psychology, 1973, 99, 266-271.
- 246. Johnson, N. and Mirchandani, P. Quantitative measures of communication gaps. Proceedings of the International Conference on Cybernetics and Society, 1973, 114-119.
- 247. Johnson, W. and Halford, G. S. Children's ability to interpret transformations of a quantity, II: judgment and memory for series of one to seven unambiguous transformations. Canadian Journal of Psychology, 1975, 29, 142-150.
- 248. Jones, M. R. From probability learning to sequential processing: a critical review. Psychological Bulletin, 1971, 76, 153-185.
- 249. Jones, M. R. Cognitive representations of serial patterns. In B. H. Kantowitz (Ed.), Human Information Processing: Tutorials In Performance and Cognition. Hillsdale, NJ: Lawrence Erlbaum Associates, 1974, 187-229.
- 250. Junge, K. The Garner-Attneave theory of ratio scaling. Scandinavian Journal of Psychology, 1967, 8, 7-10.

251. Kantowitz, H. Double stimulation with varying response information. Journal of Experimental Psychology, 1969, 82, 347-352.
252. Kantowitz, B. H. Interference in short-term motor memory: interpolated task difficulty, similarity, or activity? Journal of Experimental Psychology, 1972, 95, 264-274.
253. Kantowitz, B. H. Double stimulation with varying response requirements. Journal of Experimental Psychology, 1974, 103, 1092-1107.
254. Kantowitz, B. H. Double stimulation. In B. H. Kantowitz (Ed.), Human Information Processing: Tutorials In Performance and Cognition. Hillsdale, N.J.: Lawrence Erlbaum, 1974, 83-131.
255. Kantowitz, B. H. Modality effects in recognition short-term motor memory. Journal of Experimental Psychology, 1974, 103, 522-529.
256. Kantowitz, B. H. and Knight, Jr., J. L. Testing tapping time-sharing. Journal of Experimental Psychology, 1974, 103, 331-336.
257. Kantowitz, B. H. and Knight, Jr., J. L. On experimenter-limited processes. Psychological Review, 1976, 83, 502-597.
258. Kantowitz, B. H. and Knight, Jr., J. L. Testing tapping timesharing, II: auditory secondary task. Acta Psychologica, 1976, 40, 343-362.
259. Kantowitz, B. H. and Knight, Jr., J. L. Testing tapping timesharing: attention demands of movement amplitude and target width. In G. E. Stelmach (Ed.), Information Processing in Motor Control and Learning. New York: Academic Press, 1978, 205-227.
260. Kappauf, W. E. and Bohrer, R. Observations on mixed binomials. American Journal of Psychology, 1974, 87, 643-665.
261. Karbowiak, A. E. Patterns, waveforms and scientific measure of information. In A. E. Karbowiak and R. M. Huey (Eds.), Information, Computers, Machines and Man. Sydney, Australia: Wiley, 1971, 18-27.
262. Karbowiak, A. E. Signals, information and languages. In A. E. Karbowiak and R. M. Huey (Eds.), Information, Computers, Machines and Man. Sydney, Australia: Wiley, 1971, 98-110.
263. Kauffman, D., Johnson, M. and Knight, G. The empirical derivation of equations for predicting subjective textual information. Instructional Science, 1976, 5, 253-276.

264. Kaufman, H., Lamb, J. C. and Walter, J. R. Prediction of choice reaction time from information of individual stimuli. Perception and Psychophysics, 1970, 7, 263-266.
265. Kaufman, H. M., Hammell, T. J. and Lamb, J. C. Information transmission rates in a task requiring memory. Journal of Experimental Psychology, 1971, 91, 74-77.
266. Keele, S. W. and Archer, E. J. A comparison of two types of information in concept identification. Journal of Verbal Learning and Verbal Behavior, 1967, 6, 185-192.
267. Keele, S. W. Compatibility and time-sharing in serial reaction time. Journal of Experimental Psychology, 1967, 75, 529-539.
268. Keele, S. W. Movement control in skilled motor performance. Psychological Bulletin, 1968, 70, 387-403.
269. Keele, S. W. Attention and Human Performance. Pacific Palisades, Calif.: Goodyear, 1973.
270. Kelso, J.A.S., Southard, D. L. and Goodman, D. On the nature of human interlimb coordination. Science, 1979, 203, 1029-1031.
271. Kerr, B. A. and Langolf, G. D. Speed of aiming movements. Quarterly Journal of Experimental Psychology, 1977, 29, 475-481.
272. Kerr, R. Movement time in an underwater environment. Journal of Motor Behavior, 1973, 5, 175-178.
273. Kerr, R. Movement control and maturation in elementary-grade children. Perceptual and Motor Skills, 1975, 41, 151-154.
274. Kerr, R. Diving, adaptation, and Fitts law. Journal of Motor Behavior, 1978, 10, 255-260.
275. Kiguchi, T. and Sheridan, T. B. Selecting measures of plant information: some criteria based on information and decision theory. Proceedings of the International Conference on Cybernetics and Society, 1976, 458-465.
276. Kiguchi, T. and Sheridan, T. B. Criteria for selecting measures of plant information with application to nuclear reactors. IEEE Transactions on Systems, Man, and Cybernetics, 1979, SMC-9, 165-175.
277. Kimmel, K. R. Evaluation of information displays in control and monitoring tasks. In T. B. Sheridan and G. Johanssen (Eds.), Monitoring Behavior and Supervisory Control. New York: Plenum, 1976, 51-59.

278. Kintz, R. T., Parker, J. A. and Boynton, R. M. Information transmission in spectral color naming. Perception & Psychophysics, 1969, 5, 241-245.
279. Kirkby, C. Hick's law revisited. Acta Psychologica, 1974, 38, 277-282.
280. Klapp, S. T. Feedback versus motor programming in the control of aimed movements. Journal of Experimental Psychology: Human Perception and Performance, 1975, 104, 147-153.
281. Kleinberg, J. and Kaufman, H. Constancy in short-term memory: bits and chunks. Journal of Experimental Psychology, 1971, 90, 326-333.
282. Klemmer, E. T. and Muller, Jr., P. F. The rate of handling information: key pressing responses to light patterns. Journal of Motor Behavior, 1969, 1, 135-147.
283. Knight, A. A. and Dagnall, P. R. Precision in movements. Ergonomics, 1967, 10, 321-330.
284. Knight, Jr., J. L. and Kantowitz, B. H. Speed-accuracy tradeoff in double stimulation: effects on the first response. Memory & Cognition, 1974, 2, 522-532.
285. Kochar, D. S. Age and informational load effects in Type II tasks. Ergonomics, 1979, 22, 740 (Abstract).
286. Kochar, D. S. and Ali, H. M. Age as a factor in combined manual and decision tasks. Human Factors, 1979, 21, 595-603.
287. Kochar, D. S. and Ali, H. M. Information content and task performance: a study of the older worker. Proceedings of the Annual Meeting of the Human Factors Society, 1978, 558-563.
288. Konz, S. Work Design. Columbus, Ohio: Grid, 1979.
289. Konz, S. A., Dickey, G. L., McCutchan, C. and Koe, B. Manufacturing assembly instructions: Part III. Abstraction, complexity, and information theory. The Journal of Industrial Engineering, Nov. 1967, 658-667.
290. Koomen, C. J. Information processing in system design. Proceedings of the International Conference on Cybernetics and Society, 1979, 8-12.
291. Kornblum, S. Choice reaction time for repetitions and non-repetitions. Acta Psychologica, 1967, 27, 178-187.
292. Kornblum, S. Repetitions, non-repetitions and uncertainty in choice reaction time. In F. Klix (Ed.), The Organization of Human Information Processing. Berlin: Akademie-Verlag, 1967, 201-211.

293. Kornblum, S. Serial-choice reaction time: inadequacies of the information hypothesis. Science, 1968, 159, 432-434.
294. Kornblum, S. Sequential dependencies as a determinant of choice reaction time: a summary. Acta Psychologica, 1969, 30, 54-57.
295. Kornblum, S. Sequential determinants of information processing in serial and discrete choice reaction time. Psychological Review, 1969, 76, 113-131.
296. Kornhuber, H. H. Neural control of input into long term memory: limbic system and amnesic syndrome in man. In H. P. Zippel, (Ed.), Memory and Transfer of Information. New York: Plenum Press, 1973, 1-21.
297. Kozinsky, E. J. Human factors research on power plant simulators. Proceedings of the Annual Meeting of the Human Factors Society, 1981, 173-177.
298. Krigman, A. A mathematical model of blind mobility. American Foundation For The Blind. Research Bulletin, 1968, No. 17, 221-235.
299. Kulp, R. A. and Alluisi, E. A. Effects of stimulus-response uncertainty on watchkeeping performance and choice reactions. Perception & Psychophysics, 1967, 2, 511-515.
300. Kuttan, A. A second-order model for movement time. Perceptual and Motor Skills, 1969, 28, 879-882.
301. Kuttan, A. and Robinson, G. H. Models of temporal motor responses--stimulus, movement, and manipulation information. IEEE Transactions on Man-Machine Systems, 1970, MMS-11, 126-128.
302. Kvålseth, T. O. Fitts' law for manipulative temporal motor responses with and without path constraints. Perceptual and Motor Skills, 1973, 37, 427-431.
303. Kvålseth, T. O. On the time-multiplexing nature of human process operators. Proceedings of the Sixth Hawaii International Conference on System Sciences, 1973, 495-497.
304. Kvålseth, T. O. A preview-constraint model of rotary arm control as an extension of Fitts' law. Journal of Experimental Psychology, 1974, 102, 696-699.
305. Kvålseth, T. O. A model of linear arm movements with preview constraints. Ergonomics, 1975, 18, 529-538.
306. Kvålseth, T. O. Note on Fitts' law for manipulative temporal motor responses with path constraints. Perceptual and Motor Skills, 1975, 40, 411-414.

307. Kvålseth, T. O. Quantitative Modelling of the Time-Multiplying Characteristics of Human Controllers. Report GK-37419, School of Industrial and Systems Engineering, Georgia Institute of Technology, Atlanta, GA. Available from National Technical Information Service, Springfield, VA, Report PB246 339, August 1975.
308. Kvålseth, T. O. Comparison between information rates generated by rotary hand and arm movements. Perceptual and Motor Skills, 1976, 42, 1115-1118.
309. Kvålseth, T. O. Distribution of movement time in a target-aiming task. Perceptual and Motor Skills, 1976, 43, 507-513.
310. Kvålseth, Tarald O. The effect of practice on human performance in a preview-constrained motor control task. Journal of Motor Behavior, 1976, 8, 143-145.
311. Kvålseth, T. O. Absolute judgment for one- and two-dimensional stimuli embedded in Gaussian noise. Ergonomics, 1977, 20, 133-146.
312. Kvålseth, T. O. A generalized model of temporal motor control subject to movement constraints. Ergonomics, 1977, 20, 41-50.
313. Kvålseth, T. O. Effects of marijuana on human reaction time and motor control. Perceptual and Motor Skills, 1977, 45, 935-939.
314. Kvålseth, T. O. Subjective versus objective uncertainty during visual sampling. Proceedings of the Annual Meeting of the Human Factors Society, 1977, 29-32.
315. Kvålseth, T. O. Human and Bayesian information processing during probabilistic inference tasks. IEEE Transactions on Systems, Man and Cybernetics, 1978, SMC-8, 224-229.
316. Kvålseth, T. O. Human information processing in visual sampling. Ergonomics, 1978, 21, 439-454.
317. Kvålseth, T. O. Quantitative models of motor responses subject to longitudinal, lateral and preview constraints. Human Factors, 1978, 20, 35-39.
318. Kvålseth, T. O. The effect of task complexity on the human learning function. International Journal of Production Research, 1978, 16, 427-435.
319. Kvålseth, T. O. A quantitative measure of job variety. Proceedings of the Vth International Conference on Production Research, Amsterdam, the Netherlands, 1979, 117-119.
320. Kvålseth, T. O. Digital man-machine control systems: the effects of preview delay. Ergonomics, 1979, 22, 3-9.

321. Kvålseth, T. O. Human performance effects of marijuana. International Journal of Rehabilitation Research, 1979, 2, 529-531.
322. Kvålseth, T. O. Note on information capacity of discrete motor responses. Perceptual and Motor Skills, 1979, 49, 291-296.
323. Kvålseth, T. O. Test of the 10 bits/sec channel-capacity hypothesis for human tracking. Applied Mathematical Modelling, 1979, 3, 307-308.
324. Kvålseth, T. O. Tracking capacity measured by informational statistics. Proceedings of the Annual Meeting of the Human Factors Society, 1979, 568-572.
325. Kvålseth, T. O. An alternative to Fitts' law. Bulletin of the Psychonomic Society, 1980, 16, 371-373.
326. Kvålseth, T. O. An alternative to the Hick-Hyman's and Sternberg's Laws. Perceptual and Motor Skills, 1980, 50, 1281-1282.
327. Kvålseth, T. O. Modeling choice decision time. Proceedings of the Annual Meeting of the Human Factors Society, 1980, 76-79.
328. Kvålseth, T. O. Quantitative measures of job variety: an experimental study based on a psychophysical scaling technique. International Journal of Production Research, 1980, 18, 441-454.
329. Kvålseth, T. O. An experimental paradigm for analyzing human information processing during motor control tasks. Proceedings of the Annual Meeting of the Human Factors Society, 1981, 581-585.
330. Kvålseth, T. O. Information capacity of two-dimensional human motor responses. Ergonomics, 1981, 24, 573-575.
331. Kvålseth, T. O., Crossman, E.R.F.W. and Kum, K. Y. The effect of cost on the sampling behavior of human instrument monitors. In T. B. Sheridan and G. Johanssen (Eds.), Monitoring Behavior and Supervisory Control. New York: Plenum, 1976, 393-403.

332. Lachman, R. Uncertainty effects on time to access the internal lexicon. Journal of Experimental Psychology, 1973, 99, 199-208.
333. Lachman, R., Lachman, J. L. and Butterfield, E. C. Cognitive Psychology and Information Processing: An Introduction. New Jersey: Lawrence Erlbaum Associates, Publishers, 1979, 121-136.
334. Lachman, R., Lachman, J. L., Thronesbery, C. and Sala, L. S. Object salience and code separation in picture naming. Bulletin of the Psychonomic Society, 1980, 16, 187-190.
335. Lachman, R., Shaffer, J. P. and Hennrikus, D. Language and cognition: effects of stimulus codability, name-word frequency, and age of acquisition on lexical reaction time. Journal of Verbal Learning and Verbal Behavior, 1974, 13, 613-625.
336. Laios, L. Predictive aids for discrete decision tasks with input uncertainty. IEEE Transactions on Systems, Man, and Cybernetics, 1978, SMC-8, 19-29.
337. Lamb, J. C. and Kaufman, H. The effects of coding procedure on human information transmission. Perception & Psychophysics, 1967, 2, 256-262.
338. Laming, D. Mathematical Psychology. London: Academic Press, 1973.
339. Laming, D. Luce's choice axiom compared with choice-reaction data. British Journal of Mathematical & Statistical Psychology, 1977, 30, 141-153.
340. Laming, D. R. J. Information Theory of Choice-Reaction Times. London: Academic Press, 1968.
341. Laming, D. R. J. Subjective probability in choice-reaction experiments. Journal of Mathematical Psychology, 1969, 6, 81-120.
342. Landau, S. G., Buchsbaum, M. S., Coppola, R. and Sihvonen, M. Individual differences and reliability of information transmission in absolute judgments of loudness, brightness and line lengths. Perceptual and Motor Skills, 1974, 39, 239-246.
343. Langolf, G. and Hancock, W. M. Human performance times in microscope work. AIIE Transactions, 1975, 7, 110-117.
344. Langolf, G. D., Chaffin, D. B. and Foulke, J. A. An investigation of Fitts' law using a wide range of movement amplitudes. Journal of Motor Behavior, 1976, 8, 113-128.

345. Lanzetta, J. T. and Driscoll, J. M. Effects of uncertainty and importance on information search in decision making. Journal of Personality and Social Psychology, 1968, 10, 479-486.
346. Lappin, J. S. Transformation-invariant cues in the recognition of simple visual patterns. Perception & Psychophysics, 1971, 10, 367-370.
347. Lappin, J. S. and Disch, K. The latency operating characteristic: I. Effects of stimulus probability on choice reaction time. Journal of Experimental Psychology, 1972, 92, 419-427.
348. Lappin, J. S. and Ellis, S. H. The span of apprehension: form identification as a function of amount of information displayed. Perception & Psychophysics, 1970, 7, 65-72.
349. Lappin, J. S., Snyder, C. R. and Blackburn, C. The encoding of perceptual information in the organization of individual stimulus patterns. Perception & Psychophysics, 1971, 10, 123-128.
350. Ledwith, F. The effects of hypoxia on an information-reduction task in humans. Psychonomic Science, 1968, 12, 29-30.
351. Ledwith, F. The effects of hypoxia on choice reaction time and movement time. Ergonomics, 1970, 13, 465-482.
352. Leeuwenberg, E. L. J. A perceptual coding language for visual and auditory patterns. American Journal of Psychology, 1971, 84, 307-349.
353. Legge, D. and Barber, P. J. Information and Skill. London: Methuen, 1976.
354. LeMay, R. P. and Simon, J. R. Supplementary reports: Temporal and symbolic S-R compatibility in a sequential information-processing task. Journal of Experimental Psychology, 1969, 80, 558-560.
355. Lemond, I. C., Durham, R. L., Slater, G. P., Wilson, W. H. and Nunnally, J. C. Varying degrees of complexity and isolation in visual exploration. Perceptual and Motor Skills, 1974, 38, 787-794.
356. Lessler, K., Schoeninger, D. W. and Bridges, J. S. Prediction of first grade performance. Perceptual and Motor Skills, 1970, 31, 751-756. (not relevant; inadvertently included).
357. Levine, J. M., Samet, M. G. and Brahlek, R. E. Information seeking with limitations on available information and resources. Human Factors, 1975, 17, 502-513.
358. Levy, A. S. and Heshka, S. Similarity and the false recognition of prototypes. Bulletin of the Psychonomic Society, 1973, 1, 181-183.

359. Levy, R. M. Redundancy and dimensional load in stimulus identification. Journal of Experimental Psychology, 1973, 98, 138-144.
360. Levy, R. M. and Haggbloom, S. J. Test of a multidimensional discrimination model of stimulus identification. Psychonomic Science, 1971, 25, 203-204.
361. Levy, R. M., Kaufman, H. M. and Vogelli, G. Alphabet size, implicit coding and the memory span. Proceedings, 76th Annual Convention, APA, 1968, 3, 79-80.
362. Levy, R. M. and Norton, G. K. The effects of stimulus dimensionality on the rate of gain of information. Quarterly Journal of Experimental Psychology, 1972, 24, 299-309.
363. Levy, R. M. and Pittner, J. W. Filling short-term memory. Acta Psychologica, 1976, 40, 139-151.
364. Lhamon, W. T. and Goldstone, S. Studies of auditory-visual differences in human time judgment: 2. More transmitted information with sounds than lights. Perceptual and Motor Skills, 1974, 39, 295-307.
365. Locke, S. A. Temporal discrimination of brief auditory stimuli by schizophrenics, neurologically impaired, and normals. Perceptual and Motor Skills, 1974, 39, 1111-1120.
366. Lockhead, G. R. Identification and the form of multi-dimensional discrimination space. Journal of Experimental Psychology, 1970, 85, 1-10.
367. Long, J. Reduced efficiency and capacity limitations in multidimension signal recognition. Quarterly Journal of Experimental Psychology, 1975, 27, 599-614.
368. Long, J. Divided attention, order of report and responses to immediately successive signals. Quarterly Journal of Experimental Psychology, 1976, 28, 339-353.
369. Long, J. Effect of task difficulty on the division of attention between nonverbal signals: independence or interaction? Quarterly Journal of Experimental Psychology, 1976, 28, 179-192.
370. Lovibond, S. H. The aversiveness of uncertainty: an analysis in terms of activation and information theory. Australian Journal of Psychology, 1968, 20, 85-91.
371. Lovibond, S. H. Habituation of the orienting response to multiple stimulus sequences. Psychophysiology, 1969, 5, 435-439.
372. Lozinskii, L. S. A model of optimization in the formation of speech. Cybernetics, 1970, 6, 131-134.

373. Luce, R. D., Green, D. M. and Weber, D. L. Attention bands in absolute identification. Perception & Psychophysics, 1976, 20, 49-54.
374. Lyons, J. J. and Briggs, G. E. Speed-accuracy trade-off with different types of stimuli. Journal of Experimental Psychology, 1971, 91, 115-119.

375. MacKay, D. M. Information, Mechanism and Meaning. Cambridge, Mass.: MIT Press, 1969.
376. MacRae, A. W. Channel capacity in absolute judgment tasks: an artifact of information bias? Psychological Bulletin, 1970, 73, 112-121.
377. MacRae, A. W. Information measures in perceptual experiments: some pitfalls encountered by Kintz, Parker & Boynton. Perception & Psychophysics, 1970, 7, 221-222.
378. MacRae, A. W. On calculating unbiased information measures. Psychological Bulletin, 1971, 75, 270-277.
379. MacRae, A. W. Information transmission, partitioning and Weber's law: some comments on Baird's cognitive theory of psychophysics. Scandinavian Journal of Psychology, 1972, 13, 73-80.
380. Margineanu, D.-G. Entropy changes associated with a nerve impulse. Kybernetik, 1972, 11, 73-76.
381. Marshall, S. P. Sequential item selection: optimal and heuristic policies. Journal of Mathematical Psychology, 1981, 23, 134-152.
382. Marshall, W. L. Cognitive functioning in shizophrenia. British Journal of Psychology, 1973, 123, 413-33.
383. Marteniuk, R. G. An informational analysis of active kinesis as measured by amplitude of movement. Journal of Motor Behavior, 1971, 3, 69-77.
384. Marteniuk, R. G. Information Processing in Motor Skills. New York: Holt, Rinehart and Winston, 1976.
385. Marteniuk, R. G. and MacKenzie, C. L. Information processing in movement organization and execution. In R. S. Nickerson (Ed.), Attention and Performance VIII, 1980, Hillsdale, New Jersey: Lawrence Erlbaum Associates, Publishers, 29-57.
386. Martin, E. Stimulus encoding in learning and transfer. In A. W. Mellon and E. Martin (Eds.), Coding and Processes in Human Memory. Washington, D. C., 1972, 59-84.
387. Masani, P. A. The attention mechanism and its relationship to post-perceptual short-term storage. Papers in Psychology, 1967, 1, 82-86.
388. Massa, R. J. An investigation of human visual information transmission. American Foundation For The Blind, Research Bulletin, 1968, No. 18, 25-140.

389. Massey, J. L. Information, machines, and men. In F. J. Crosson and K. M. Sayre (Eds.), Philosophy and Cybernetics. London: University of Notre Dame Press, 1967, 37-69.
390. Mavrides, C. M. and Brown, D. R. Discrimination and reproduction of patterns: feature measures and constraint redundancy as predictors. Perception & Psychophysics, 1969, 6, 276-280.
391. McCormick, E. J. and Sanders, M. S. Human Factors in Engineering and Design, 5th ed., New York: McGraw-Hill, 1982.
392. McLeod, J. and Anderson, J. An approach to assessment of reading ability through information transmission. Journal of Reading Behavior, 1970, 2, 116-143.
393. McNicol, D. Feedback as a source of information and as a source of noise in absolute judgments of loudness. Journal of Experimental Psychology: Human Perception and Performance, 1975, 104, 175-182.
394. Megaw, E. D. Direction and extent uncertainty in step-input tracking. Journal of Motor Behavior, 1972, 4, 171-186.
395. Megaw, E. D. Fitts tapping revisited. Journal of Human Movement Studies, 1975, 1, 163-171.
396. Megaw, E. D. and Armstrong, W. Individual and simultaneous tracking of a step input by the horizontal saccadic eye movement and manual control systems. Journal of Experimental Psychology, 1973, 100, 18-28.
397. Meudell, P. R. and Whiston, T. G. An informational analysis of a visual search task. Perception & Psychophysics, 1970, 7, 212-214.
398. Mewhort, D. J. K. Retrieval tags and order of report in dichotic listening. Canad. J. Psychol., 1973, 27, 119-126.
399. Miller, J. G. Living Systems. New York: McGraw-Hill, 1978.
400. Miller, L. A. Hypothesis analysis of conjunctive concept-learning situations. Psychological Review, 1971, 78, 262-271.
401. Moray, N. and Conant, R. Information transmission and the structure of behavior. Proceedings of the International Conference on Cybernetics and Society, 1979, 13-16.
402. Morelan, S. J. IQ, mental age, complexity, and trial blocks and the response latency of retarded and nonretarded children. American Journal of Mental Deficiency, 1976, 80, 437-441.
403. Morgan, Jr., B. B. and Alluisi, E. A. Effects of discriminability and irrelevant information on absolute judgments. Perception & Psychophysics, 1967, 2, 54-58.

- 404. Moskowitz, H. and Burns, M. Alcohol effects on information processing time with an overlearned task. Perceptual and Motor Skills, 1973, 37, 835-839.
- 405. Mueller, M. R., Edmonds, E. M. and Evans, S. H. Amount of uncertainty associated with decoding in free recall. Journal of Experimental Psychology, 1967, 75, 437-443.
- 406. Muise, J. G., LeBlanc, R. S. and Jeffrey, C. J. Comparison of redundancy of French and English through use of a regular finite Markov process. Perceptual and Motor Skills, 1972, 34, 712-714.
- 407. Mulder, G. Man as a processor of information. In K. F. Kraiss and J. Moraal (Eds.), Human Engineering. Köln, West Germany: Verlag TÜV Rheinland GmbH, 1976, 27-60.
- 408. Murdock, Jr., B. B. Decoding as a function of the number of bits per chunk. Journal of Experimental Psychology, 1968, 78, 1-7.

409. Nadler, B. Effects of stimulus characteristics on the logical problem solving behavior of retarded adolescents and nonretarded children. Child Study Journal, 1980, 10, 27-39.
410. Nakahama, H., Ishii, N. and Yamamoto, M. Markov process of maintained impulse activity in central single neurons. Kybernetik, 1972, 11, 61-72.
411. Nakahama, H., Ishii, N., Yamamoto, M. and Fujii, H. Statistical inference on Markov process or neuronal impulse sequences. Kybernetik, 1974, 15, 47-64.
412. Nakahama, H., Ishii, N., Yamamoto, M., Fujii, H. and Obata, T. Statistical dependency as a measure to evaluate Markov properties of stochastic point processes. Biological Cybernetics, 1975, 18, 191-208.
413. Nakahama, H., Yamamoto, M., Ishii, N., Fujii, H. and Aya, K. Dependency as a measure to estimate the order and the values of Markov processes. Biological Cybernetics, 1977, 25, 209-226.
414. Naylor, G. F. K. Perception times and rates as a function of the qualitative and quantitative structure of the stimulus. Australian Journal of Psychology, 1968, 20, 165-172.
415. Nelson, D. L. Information theory and stimulus encoding in free and serial recall: ordinal position of formal similarity. Journal of Experimental Psychology, 1969, 80, 537-541.
416. Nelson, D. L. and Garland, R. M. Amount and locus of stimulus-response overlap in paired-associate acquisition. Journal of Experimental Psychology, 1969, 82, 297-300.
417. Nelson, D. L. and Rowe, F. A. Information theory and stimulus encoding in paired-associate acquisition: ordinal position of formal similarity. Journal of Experimental Psychology, 1969, 79, 342-346.
418. Nickerson, R. S. Expectancy, waiting time and the psychological refractory period. Acta Psychologica, 1967, 27, 23-34.
419. Nickerson, R. S. Binary-classification reaction time: a review of some studies of human information-processing capabilities. Psychonomic Monograph Supplements, 1972, 4, 275-317.
420. Nickerson, R. S. and Burnham, D. W. Response times with nonaging foreperiods. Journal of Experimental Psychology, 1969, 79, 452-457.
421. Nicki, R. M. The reinforcing effect of uncertainty reduction on a human operant. Canadian Journal of Psychology, 1970, 24, 389-400.

422. Nicki, R. M. and Shea, J. F. Subjective uncertainty, the orientation reaction, and the reinforcement of an instrumental response. Perception & Psychophysics, 1970, 7, 374-376.
423. Nicki, R. M. and Shea, J. F. Learning, curiosity, and social group membership. Journal of Experimental Child Psychology, 1971, 11, 124-132.
424. Norton, J. C. Effect of set size, age, and mode of stimulus presentation on information-processing speed. Perceptual and Motor Skills, 1972, 34, 1003-1010.
425. Norwich, K. H. On the information received by sensory receptors. Bulletin of Mathematical Biology, 39, 1977, 453-461.
426. Norwich, K. H. The magical number seven: making a "bit" of "sense". Perception & Psychophysics, 1981, 29, 409-422.

- 427. Ogden, G. D. and Alluisi, E. A. Stimulus-response compatibility effects in choice reactions and memory scanning. Journal of Experimental Psychology: Human Learning and Memory, 1980, 6, 430-438.
- 428. O'Gorman, J. G. Habituation of the orienting reaction as a function of stimulus information. Psychonomic Science, 1971, 22, 331-332.
- 429. Olson, D. R. Information-processing limitations of mentally retarded children. American Journal of Mental Deficiency, 1971, 75, 478-486.
- 430. Omohundro, J. and Homa, D. Search for abstracted information. American Journal of Psychology, 1981, 94, 267-290.

431. Pachella, R. G. and Fisher, D. Hick's law and the speed-accuracy trade-off in absolute judgment. Journal of Experimental Psychology, 1972, 92, 378-384.
432. Pachella, R. G. The interpretation of reaction time in information-processing research. In B. H. Kantowitz (Ed.), Human Information Processing: Tutorials in Performance and Cognition. Hillsdale, N.J.: Lawrence Erlbaum Associates, 1974, 41-82.
433. Pachella, R. G. and Fisher, D. F. Effect of stimulus degradation and similarity on the trade-off between speed and accuracy in absolute judgments. Journal of Experimental Psychology, 1969, 81, 7-9.
434. Pachella, R. G., Fisher, D. F. and Karsh, R. Absolute judgments in speeded tasks: quantification of the trade-off between speed and accuracy. Psychonomic Science, 1968, 12, 225-226.
435. Palm, G. On associative memory. Biological Cybernetics, 1980, 36, 19-31.
436. Pask, G. and Scott, B.C.E. Learning and teaching strategies in a transformation skill. British Journal of Mathematical & Statistical Psychology, 1971, 24, 205-229.
437. Pearl, J. Entropy, information and rational decisions. School of Engineering and Applied Science, University of California, Los Angeles, October 1978.
438. Pelham, W. E. Selective attention deficits in poor readers? Dichotic listening, speeded classification, and auditory and visual central and incidental learning tasks. Child Development, 1979, 50, 1050-1061.
439. Pendse, S. G. Category perception, language and brain hemispheres: an information transmission approach. Behavioral Science, 1978, 23, 421-428.
440. Perriment, A. D. Effect of control placement on information transfer rate using bisensory signals. Journal of Applied Psychology, 1968, 52, 357-361.
441. Peters, G. L. Coding processes in active and inactive memory. Journal of Experimental Psychology, 1974, 102, 423-430.
442. Pew, R. W. Human perceptual-motor performance. In B. H. Kantowitz (Ed.), Human Information Processing: Tutorials In Performance And Cognition. Hillsdale, N.J.: Lawrence Erlbaum Associates, 1974, 1-39.
443. Philipp, U., Reiche, D. and Kirchner, J. H. The use of subjective rating. Ergonomics, 1971, 14, 611-616.

- 444. Pinsky, H. M. and Willis, W. D. (Eds.). Information Processing in the Nervous System. New York: Raven Press, 1980.
- 445. Plug, C. Number preferences in ratio estimation and constant-sum scaling. American Journal of Psychology, 1977, 90, 699-704.
- 446. Pollack, I. Discrimination of restrictions in sequentially-encoded auditory displays: block designs. Perception & Psychophysics, 1971, 9, 57-60.
- 447. Pollack, I. Discrimination of restrictions upon sequentially encoded information: variable length periodicities. Perception & Psychophysics, 1971, 9, 321-326.
- 448. Pollack, I. Detection of informational constraints related to multi-variate visual displays. Acta Psychologica, 1973, 37, 107-115.
- 449. Poock, G. K. Information processing vs. pupil diameter. Perceptual and Motor Skills, 1973, 37, 1000-1002.
- 450. Poock, G. K. and Noel, C. E. Effects of layout of workplace on pupillary diameter. Perceptual and Motor Skills, 1975, 40, 304.
- 451. Posner, M. I., Goldsmith, R. and Welton, Jr., K. E. Perceived distance and the classification of distorted patterns. Journal of Experimental Psychology, 1967, 73, 28-38.
- 452. Posner, M. I. and Keele, S. W. On the genesis of abstract ideas. Journal of Experimental Psychology, 1968, 77, Part 1, 353-363.
- 453. Posner, M. I. and Keele, S. W. Skill learning. In R. M. W. Travers (Ed.), Second Handbook of Research on Teaching. Chicago: Rand McNally & Co., 1973, 805-831.

454. Rabbitt, P. Age and use of structure in transmitted information. In G. A. Talland (Ed.), Human Ageing and Behavior. New York and London: Academic Press, 1968, 75-92.
455. Rabbitt, P. M. Signal discriminability, S-R compatibility and choice reaction time. Psychonomic Science, 1967, 7, 419-420.
456. Rabbitt, Patrick M. A. Repetition effects and signal classification strategies in serial choice-response tasks. Quarterly Journal of Experimental Psychology, 1968, 20, 232-240.
457. Rackoff, N. J. An investigation of age-related changes in drivers visual search patterns and driving performance and the relation to tests of basic functional capacities. Proceedings of the Annual Meeting of the Human Factors Society, 1975, 285-288.
458. Radzicki, J. The effect of some situational factors on probabilistic diagnosing. Polish Psychological Bulletin, 1975, 6, 147-156.
459. Randhawa, B. S. Intellectual development and the ability to process visual and verbal information. AV Communication Review, 1971, 19, 298-312.
460. Randhawa, B. S. Nonverbal information storage in children and developmental information processing channel capacity. Journal of Experimental Child Psychology, 1972, 13, 58-70.
461. Randhawa, B. S. Perceptual information processing of different visual stimuli by eight-year-old children. Journal of Experimental Child Psychology, 1973, 16, 55-62.
462. Raouf, A. and Arora, S. Effect of informational load, index of difficulty direction and plane angles of discrete moves in a combined manual and decision task. International Journal of Production Research, 1980, 18, 117-128.
463. Raouf, A. and Arora, S. Effect of informational load, index of difficulty, direction and plane angles of discrete moves in a combined manual and decision task. Proceedings of the Vth International Conference on Production Research, 1979, 136-139.
464. Raouf, A. and Elsayed, E. A. Effect of distances and angles of arm movements in the horizontal plane and bits of information on performance time. Activitas Nervosa Superior, 1977, 19, 96-101.
465. Raouf, A. and Sethi, H. S. Pulse rate difference as a function of information reduction in a combined manual and decision task. Proceedings of the 6th Congress of the International Ergonomics Association, 1976, 552-556.

- 466. Raouf, A. and Tsui, J. Performance time as effected by choice uncertainty and index of difficulty. Proceedings of the Annual Meeting of the Human Factors Society, 1978, 355-359.
- 467. Rault, A. Pilot workload analysis. In T. B. Sheridan and G. Johannsen (Eds.), Monitoring Behavior and Supervisory Control. New York: Plenum, 1976, 139-155.
- 468. Regan, J. E. Automaticity and learning: effects of familiarity on naming letters. Journal of Experimental Psychology: Human Perception and Performance, 1981, 7, 180-195.
- 469. Reich, J. W. Stimulus and personality complexity in maintenance of categorization behavior. Perceptual and Motor Skills, 1968, 27, 1079-1090.
- 470. Reiche, D., Kirchner, J.-H. and Laurig, W. Evaluation of stress factors by analysis of radio-telecommunication in ATC. Ergonomics, 1971, 14, 603-609.
- 471. Remington, R. J. The effects of advance information on human information processing in a choice reaction task. Psychonomic Science, 1971, 24, 171-173.
- 472. Repperger, D. W. and Junker, A. M. Evaluation of subjective uncertainty through modeling to study properties of human invariance in tracking. Proceedings of the International Conference on Cybernetics and Society, 1978, 1427-1432.
- 473. Richards, R. R., Sadosky, T. L. and Schutz, R. K. The use of choice-reaction-time models in the analysis of detection tasks. Proceedings of the Annual Meeting of the Human Factors Society, 1977, 123-126.
- 474. Rink, R. E. Information-theoretic analysis of neural communication. In J. Rose (Ed.), Advances in Cybernetics, Vol. 2, London: Gordon and Breach, 1974, 749-755.
- 475. Robinson, G. H. and Kavinsky, R. C. On Fitts' law with two-handed movement. IEEE Transactions on Systems, Man, and Cybernetics, 1976, SMC-6, 504-505.
- 476. Robinson, G. H. and Leifer, R. P. Generality of Fitts' law under differential error instruction. Perceptual and Motor Skills, 1967, 25, 901-904.
- 477. Rodewald, H. K. and Bosma, L. F. Information transmission in brief exposures as a function of association value. Perceptual and Motor Skills, 1972, 34, 420-422.
- 478. Roediger, III, H. L., Knight, Jr., J. L. and Kantowitz, B. H. Inferring decay in short-term memory: the issue of capacity. Memory & Cognition, 1977, 5, 167-176.

479. Rogers, D. L. and Jones, A. Information-seeking behavior in the tactile modality. Perceptual and Motor Skills, 1980, 50, 1179-1191.
480. Rosch, E., Simpson, C. and Miller, R. S. Structural bases of typicality effects. Journal of Experimental Psychology: Human Perception and Performance, 1976, 2, 491-502.
481. Rosenbaum, D. A. Human movement initiation: specification of arm, direction, and extent. Journal of Experimental Psychology: General, 1980, 109, 444-474.
482. Rosenbaum, D. A. and Patashnik, O. A mental clock setting process revealed by reaction times. In G. E. Stelmach and J. Requin (Eds.), Tutorials in Motor Behavior. Amsterdam; New York: North-Holland Publishing Company, 1980, 487-499.
483. Rotton, J. Test of two models for acquisition of information: failure to replicate. Psychological Reports, 1974, 35, 943-949.
484. Royer, F. L. Information processing of visual figures in the digit symbol substitution task. Journal of Experimental Psychology, 1971, 87, 335-342.
485. Royer, F. L. Information processing in the block design task. Intelligence, 1977, 1, 32-50.
486. Royer, F. L. and Garner, W. R. Perceptual organization of nine-element auditory temporal patterns. Perception & Psychophysics, 1970, 7, 115-120.
487. Royce, J. R. and Buss, A. R. The role of general systems and information theory in multi-factor individuality theory. Canadian Psychological Review, 1976, 17, 1-21.
488. Rouse, W. B. and Rouse, S. H. Measures of complexity of fault diagnosis tasks. IEEE Transactions on Systems, Man, and Cybernetics, 1979, SMC-9, 720-727.
489. Rudomin, P. Information processing at synapses in the vertebrate spinal cord: presynaptic control of information transfer in monosynaptic pathways. In H. M. Pinsker and W. D. Willis (Eds.), Information Processing in the Nervous System. New York: Raven Press, 1980, 125-155.
490. Rundell, O. H. and Williams, H. L. Alcohol and speed-accuracy tradeoff. Human Factors, 1979, 21, 433-443.
491. Russell, D. G. Channel capacity for kinesthetic torque information. Perceptual and Motor Skills, 1981, 52, 387-390.
492. Russell, D. G. and Marteniuk, R. G. An informational analysis of absolute judgments of torque. Perception & Psychophysics, 1974, 16, 443-448.

493. Sakitt, B. Visual-motor efficiency (VME) and the information transmitted in visual-motor tasks. Bulletin of the Psychonomic Society, 1980, 16, 329-332.
494. Salmoni, A. W. and McIlwain, J. S. Fitts' reciprocal tapping task, a measure of motor capacity? Perceptual and Motor Skills, 1979, 49, 403-413.
495. Salomon, G. and Sieber, J. E. Relevant subjective response uncertainty as a function of stimulus-task interaction. American Educational Research Journal, 1970, 7, 337-349.
496. Salter, D. and Haycock, V. Two studies on the process of negative modification. Journal of Psycholinguistic Research, 1972, 1, 337-348.
497. Salthouse, T. A. Number of memory representations in perceptual concepts. Journal of Experimental Psychology: Human Learning and Memory, 1977, 3, 18-28.
498. Sanders, A. F. Some aspects of reaction processes. Acta Psychologica, 1967, 27, 115-130.
499. Sanders, A. F. Some remarks on mental load. In N. Moray (Ed.), Mental Workload: Its Theory and Measurement. New York: Plenum, 1979, 41-77.
500. Sankaran, C. R. Determination of the ultimate 'unit' of speech. Behaviorometric, 1973, 3, 22-28.
501. Särndal, C. E. A Monte Carlo study of some asymmetric association measures. British Journal of Mathematical & Statistical Psychology, 1976, 29, 94-102.
502. Sayre, K. M. Toward a quantitative model of pattern formation. In F. J. Crosson and K. M. Sayre (Eds.), Philosophy and Cybernetics. Notre Dame: University of Notre Dame Press, 1967, 137-179.
503. Schmidt, R. A. Control processes in motor skills. Exercise and Sport Sciences Review, 1976, 4, 229-261.
504. Schmidt, R. A., Zelaznik, H. N. and Frank, J. S. Sources of inaccuracy in rapid movement. In G. E. Stelmach (Ed.), Information Processing In Motor Control and Learning. New York: Academic Press, 1978, 183-203.
505. Schmidt, R. A., Zelaznik, H., Hawkins, B., Frank, J. S. and Quinn, Jr., J. T. Motor-output variability: a theory for the accuracy of rapid motor acts. Psychological Review, 1979, 86, 415-447.
506. Schneider, W. and Shiffrin, R. M. Controlled and automatic human information processing: I. Detection, search, and attention. Psychological Review, 1977, 84, 1-66.

507. Schnore, M. M. and Partington, J. T. Immediate memory for visual patterns: symmetry and amount of information. Psychonomic Science, 1967, 8, 421-422.
508. Schvaneveldt, R. W. Effects of complexity in simultaneous reaction time tasks. Journal of Experimental Psychology, 1969, 81, 289-296.
509. Schvaneveldt, R. W. and Staudenmayer, H. Mental arithmetic and the uncertainty effect in choice reaction time. Journal of Experimental Psychology, 1970, 85, 111-117.
510. Semjen, A. and Requin, J. Movement amplitude, pointing accuracy and choice-reaction time. Perceptual and Motor Skills, 1976, 43, 807-812.
511. Senders, J. W. and Posner, M. J. M. A queueing model of monitoring and supervisory behavior. In T. B. Sheridan and G. Johanssen (Eds.), Monitoring Behavior and Supervisory Control. New York: Plenum, 1976, 245-259.
512. Shaffer, L. H. Intention and performance. Psychological Review, 1976, 83, 375-393.
513. Shaffer, R. W. and Howard, J. The transfer of information across sensory modalities. Perception & Psychophysics, 1974, 15, 344-348.
514. Sheridan, M. R. Effects of S-R compatibility and task difficulty on unimanual movement time. Journal of Motor Behavior, 1973, 5, 199-205.
515. Sheridan, M. R. A reappraisal of Fitts' law. Journal of Motor Behavior, 1979, 11, 179-188.
516. Sheridan, M. R. Response programming and reaction time. Journal of Motor Behavior, 1981, 13, 161-176.
517. Sheridan, T. B. and Ferrell, W. Man-Machine Systems: Information, Control, and Decision Models of Human Performance. Cambridge, Mass.: MIT Press, 1974.
518. Shillito, M. L., King, L. E. and Cameron, C. Effects of alcohol on choice reaction time. Quarterly Journal of Study on Alcohol, 1974, 35, 1023-1034.
519. Shrader-Frechette, K. S. Information-theoretic descriptions and physicalistic accounts of mind. Cybernetica, 1977, 20, 223-234.
520. Siegel, D. S. The effect of movement amplitude and target diameter on reaction time. Journal of Motor Behavior, 1977, 9, 257-265.

521. Siegel, J. A. and Siegel, W. Absolute judgment and paired-associate learning: kissing cousins or identical twins? Psychological Review, 1972, 79, 300-316.
522. Siegel, L. S. Concept attainment as a function of amount and form of information. Journal of Experimental Psychology, 1969, 81, 464-468.
523. Siegel, W. Memory effects in the method of absolute judgment. Journal of Experimental Psychology, 1972, 94, 121-131.
524. Silverman, W. P. The perception of identity in simultaneously presented complex visual displays. Memory & Cognition, 1973, 1, 459-466.
525. Simon, H. A. Complexity and the representation of patterned sequences of symbols. Psychological Review, 1972, 79, 369-382.
526. Simpson, P. J. High-speed memory scanning: stability and generality. Journal of Experimental Psychology, 1972, 96, 239-246.
527. Siomopoulos, V. An information theory model for repression: an attempt to quantify repression. Comprehensive Psychiatry, 1973, 14, 381-385.
528. Siomopoulos, V. On the psychophysical law: an information theory interpretation. Perceptual and Motor Skills, 1975, 40, 8-10.
529. Slade, P. D. Rate of information processing in a schizophrenic and a control group: the effect of increasing task complexity. British Journal of Social & Clinical Psychology, 1971, 10, 152-159.
530. Slade, P. D. The external control of auditory hallucinations: an information theory analysis. British Journal of Social & Clinical Psychology, 1974, 13, 73-79.
531. Slak, S. Information, similarity and vocalization in serial learning of digits. Perceptual and Motor Skills, 1969, 28, 311-316.
532. Slak, S. Information, similarity and vocalization in short-term recognition memory for numbers. Perceptual and Motor Skills, 1969, 29, 387-393.
533. Slak, S. Multidimensional information transmission as a function of unidimensional channel capacity. Psychological Review, 1969, 76, 224-226.
534. Slak, S. Memory span for quinary and decimal digits. Perceptual and Motor Skills, 1970, 31, 750.

535. Slak, S. Univariate and bivariate information storage. American Journal of Psychology, 1971, 84, 205-209.
536. Slak, S. Memory span as a function of amount of information. Perceptual and Motor Skills, 1974, 39, 619-622.
537. Slak, S. Information-transmission method for expressing short-term memory span as channel capacity. Perceptual and Motor Skills, 1976, 42, 491-496.
538. Slak, S. Limited magic of binary-to-octal recoding and memory span. Perceptual and Motor Skills, 1979, 49, 727-733.
539. Slak, S. and Hirsch, K. A. Human ability to randomize sequences as a function of information per item. Bulletin of the Psychonomic Society, 1974, 4, 29-30.
540. Slak, S., Hirsch, K. A. and Syrja, K. V. Randomization of univariate and bivariate sequences and Baddeley's limited capacity hypothesis. The Journal of Psychology, 1979, 103, 169-182.
541. Slak, S., Kelley, K. M. and Skibski, J. Phonemic recoding of figural information and memory span. Bulletin of the Psychonomic Society, 1979, 14, 304-306.
542. Smith, E. E. Choice reaction time: an analysis of the major theoretical positions. Psychological Bulletin, 1968, 69, 77-110.
543. Smith, G. and Stanley, G. Relationships between measures of intelligence and choice reaction time. Bulletin of the Psychonomic Society, 1980, 16, 8-10.
544. Smith, G. A. Studies of compatibility and a new model of choice reaction time. In S. Dornic (Ed.), Attention and Performance VI. Hillsdale, New Jersey: Lawrence Erlbaum Associates, 1977, 27-48.
545. Smith, G. F. and Dorfman, D. D. The effect of stimulus uncertainty on the relationship between frequency of exposure and liking. Journal of Personality and Social Psychology, 1975, 31, 150-155.
546. Smith, J. and Kaufman, H. Identification, discrimination, and match-to-sample as instances of comparative judgment. Perception & Psychophysics, 1977, 21, 253-258.
547. Smith, M. C. Stimulus-response compatibility and parallel response selection. Canadian Journal of Psychology, 1967, 21, 496-503.
548. Smith, P. T. Cost, discriminability and response bias. The British Journal of Mathematical and Statistical Psychology, 1968, 21, Part 1, 35-60.

549. Smith, S. A. A derivation of entropy and the maximum entropy criterion in the context of decision problems. IEEE Transactions on Systems, Man, and Cybernetics, 1974, SMC-4, 157-163.
550. Snodgrass, J. G. Objective and subjective complexity measures for a new population of patterns. Perception & Psychophysics, 1971, 10, 217-224.
551. Snodgrass, J. G. and Venderwart, M. A standardized set of 260 pictures: norms for name agreement, image agreement, familiarity, and visual complexity. Journal of Experimental Psychology: Human Learning and Memory, 1980, 6, 174-215.
552. Soede, M. On mental load and reduced mental capacity: some considerations concerning laboratory research and field investigations. In N. Moray (Ed.), Mental Workload: Its Theory and Measurement. New York: Plenum, 1979, 445-467.
553. Spinks, J. A. and Siddle, D.A.T. Effects of stimulus information and stimulus duration on amplitude and habituation of the electrodermal orienting response. Biological Psychology, 1976, 4, 29-39.
554. Spitz, H. H. Information transmission in an absolute judgment task with feedback, using normal and retarded subjects. Journal of Comparative and Physiological Psychology, 1967, 64, 85-92.
555. Stager, P. Conceptual level as a composition variable in small-group decision making. Journal of Personality and Social Psychology, 1967, 5, 152-161.
556. Stager, P. Effects of information load and instructions on performance in a complex task. Journal of Experimental Psychology, 1970, 84, 123-130.
557. Stager, P. and Muter, P. Instructions and information processing in a complex task. Journal of Experimental Psychology, 1971, 87, 291-294.
558. Stanaway, R. G., Morley, T. and Anstis, S. M. Tinnitus not a reference signal in judgments of absolute pitch. Quarterly Journal of Experimental Psychology, 1970, 22, 230-238.
559. Standing, L., Bond, B., Smith, P. and Isely, C. Is the immediate memory span determined by subvocalization rate? British Journal of Psychology, 1980, 71, 525-539.
560. Steedman, W. C. Absolute judgments of size in a restricted visual environment. Perceptual and Motor Skills, 1967, 24, 731-736.
561. Stein, R. B. The information capacity of nerve cells using a frequency code. Biophysical Journal, 1967, 7, 797-826.

562. Stein, R. B. and French, A. S. Models for the transmission of information by nerve cells. In P. Andersen and J. K. S. Jansen (Eds.), Excitatory Synaptic Mechanisms. Oslo, Norway: Universitetsforlaget, 1970, 247-257.
563. Stelmach, G. E. Kinesthetic recall and information reduction activity. Journal of Motor Behavior, 1970, II, 183-194.
564. Stelmach, G. E. and Wilson, M. Kinesthetic retention, movement extent, and information processing. Journal of Experimental Psychology, 1970, 85, 425-430.
565. Stilson, D. W., Haaseth, K., Walsmith, C. R., Schneider, R. J. and Rogers, M. Marbe's law, stimulus expectancy, and response competition. American Journal of Psychology, 1972, 85, 549-567.
566. Strange, W., Keeney, T., Kessel, F. S. and Jenkins, J. J. Abstraction over time of prototypes from distortions of random dot patterns: a replication. Journal of Experimental Psychology, 1970, 83, 508-510.
567. Stubbs, D. F. What the eye tells the hand. Journal of Motor Behavior, 1976, 8, 43-58.
568. Sugden, D. A. Movement speed in children. Journal of Motor Behavior, 1980, 12, 125-132.
569. Summers, J. J. Adjustments to redundancy in reaction time: a comparison of three learning methods. Acta Psychologica, 1977, 41, 205-223.
570. Surwillo, W. W. Developmental changes in the speed of information processing. The Journal of Psychology, 1977, 96, 97-102.
571. Swanson, J. M. The neglected negative set. Journal of Experimental Psychology, 1974, 103, 1019-1026.
572. Swanson, J. M. and Briggs, G. E. Information processing as a function of speed versus accuracy. Journal of Experimental Psychology, 1969, 81, 223-229.
573. Swanson, J. M., Johnsen, A. M. and Briggs, G. E. Recoding in a memory search task. Journal of Experimental Psychology, 1972, 93, 1-9.
574. Swensson, R. G. The elusive tradeoff: speed vs. accuracy in visual discrimination tasks. Perception & Psychophysics, 1972, 12, 16-32.
575. Szafran, J. Psychophysical studies of aging in pilots. In G. A. Talland (Ed.), Human Ageing and Behavior. New York: Academic Press, 1968, 37-74.

576. Takatsuji, M. An information-theoretical approach to a system of interacting elements. Biological Cybernetics, 1975, 17, 207-210.
577. Taylor, K. B. A Markovian investigation of English language redundancy. Psychonomic Science, 1970, 20, 199-200.
578. Taylor, K. B. An information-theory measurement of CVC trigram meaningfulness. Psychonomic Science, 1970, 21, 101-103.
579. Taylor, M. M., Lindsay, P. H. and Forbes, S. M. Quantification of shared capacity processing in auditory and visual discrimination. Acta Psychologica, 1967, 27, 223-229.
580. Teichner, W. H. and Krebs, M. J. Laws of visual choice reaction time. Psychological Review, 1974, 81, 75-98.
581. Teichner, W. H. and Krebs, M. J. Visual search for simple targets. Psychological Bulletin, 1974, 81, 15-28.
582. Teichner, W. H. and Mocharnuk, J. B. Visual search for complex targets. Human Factors, 1979, 21, 259-275.
583. Teodorescu, D. Message operators: a new expression of the information. Biological Cybernetics, 1976, 24, 199-209.
584. Theios, J. The components of response latency in simple human information processing tasks. In P. M. A. Rabbitt and S. Dornic (Eds.), Attention and Performance V. London: Academic Press, 1975.
585. Thiskaridze, M.-A. The human channel capacity and manner of activity. Agressologie, 1975, 16, 141-145.
586. Thomas, E. A. C. Reaction-time studies: the anticipation and interaction of responses. The British Journal of Mathematical and Statistical Psychology, 1967, 20, Part 1, 1-29.
587. Thomas, H. B. G. An information-theoretic model for the serial position effect. Psychological Review, 1968, 75, 409-420.
588. Thomson, G. A. A model for determining the effectiveness of intersection priority rule systems. Accident Analysis & Prevention, 1978, 10, 313-333.
589. Todor, J. I. Sequential motor ability of left-handed inverted and non-inverted writers. Acta Psychologica, 1980, 44, 165-173.
590. Todor, J. I. and Doane, T. Handedness and hemispheric asymmetry in the control of movements. Journal of Motor Behavior, 1978, 10, 295-300.

591. Todor, J. I. and Kyprle, P. M. Hand differences in the rate and variability of rapid tapping. Journal of Motor Behavior, 1980, 12, 57-62.
592. Tolin, P. Effect of association value in a memory scan task. Psychological Reports, 1975, 37, 3-6.
593. Trumbo, D. Acquisition and performance as a function of uncertainty and structure in serial tracking tasks. Acta Psychologica, 1970, 33; also A. F. Sanders (Ed.), Attention and Performance III. Amsterdam: North-Holland Publishing Company, 252-266.
594. Trumbo, D. and Noble, M. Secondary task effects on serial verbal learning. Journal of Experimental Psychology, 1970, 85, 418-424.
595. Trumbo, D. and Noble, M. Response uncertainty in dual-task performance. Organizational Behavior and Human Performance, 1972, 7, 203-215.
596. Trumbo, D., Noble, M. and Swink, J. Secondary task interference in the performance of tracking tasks. Journal of Experimental Psychology, 1967, 73, 232-240.
597. Tsukada, M., Ishii, N. and Sato, R. Stochastic automaton models for the temporal pattern discrimination of nerve impulse sequences. Biological Cybernetics, 1976, 21, 121-130.
598. Tsukada, M., Obara, K. and Sato, R. Information transmission in multi-input-output stochastic neuron models. Biological Cybernetics, 1979, 34, 119-124.
599. Tuinman, J. J. A note on $H = \log_2 m$. Psychometrika, 1973, 38, 73-75.
600. Turvey, M. T., Shaw, R. E. and Mace, W. Issues in the theory of action: degrees of freedom, coordinative structures and coalitions. In J. Requin (Ed.), Attention & Performance VII, Hillsdale, N.J.: Lawrence Erlbaum Associates, Publishers, 1978, 557-595.
601. Tzannes, N. S. Information theory and management decisions. In J. Rose (Ed.), Advances in Cybernetics, Vol. 2. London: Gordon and Breach, 1974, 1057-1070.

602. Uttley, A. M. Information Transmission in the Nervous System. London: Academic Press, 1979.
603. Van Cott, H. P. and Kinkade, R. G. (Eds.). Human Engineering Guide to Equipment Design, rev. edition. Washington, D. C.: U. S. Government Printing Office, 1972.
604. Van Gigch, J. P. A model for measuring the information processing rates and mental load of complex activities. Journal of Canadian Operations Research Society, 1970, 8, 116-128.
605. Van Gigch, J. P. Applications of a model used in calculating the mental load of workers in industry. Journal of Canadian Operations Research Society, 1970, 8, 176-184.
606. Van Gigch, J. P. A process computer's contribution to the reduction of mental effort and to the handling of systems malfunctions. International Journal of Man-Machine Studies, 1971, 3, 201-218.
607. Van Gigch, J. P. Changes in mental content of work exemplified by lumber sorting operations. International Journal Man-Machine Studies, 1971, 3, 13-29.
608. Van Gigch, J. P. Applied General Systems Theory. New York: Harper & Row, 1974.
609. Van Gigch, J. P. The physical and mental load components of objective complexity in production systems. Behavioral Science, 1976, 21, 490-498.
610. Velden, M. An empirical test of Sokolov's entropy model of the orienting response. Psychophysiology, 1974, 11, 682-691.
611. Verplant, W. L. The facilitating effects of uncertainty in long-term manual control. Proceedings of the International Conference on Cybernetics and Society, 1977, 217-220.
612. Vianello, M. A. B. and Evans, S. E. Note on pitch discrimination learning. Perceptual and Motor Skills, 1968, 26, 576.
613. Vitz, P. C. Information, run structure and binary pattern complexity. Perception & Psychophysics, 1978, 3, 275-280.
614. Vitz, P. C. and Todd, T. C. A coded element model of the perceptual processing of sequential stimuli. Psychological Review, 1969, 76, 433-449.
615. Vroon, P. A. Effects of presented and processed information on duration experience. Acta Psychologica, 1970, 34, 115-121.

616. Wade, M. G. and Gold, M. W. Removing some of the limitations of mentally retarded workers by improving job design. Human Factors, 1978, 20, 339-348.
617. Wang, M. D. SINFA: Multivariate uncertainty analysis for confusion matrices. Behavior Research Methods & Instrumentation, 1976, 8, 471-472.
618. Ward, L. M. and Lockhead, G. R. Response system processes in absolute judgment. Perception & Psychophysics, 1971, 9, 73-78.
619. Warm, J. S. and Alluisi, E. A. Influence of temporal uncertainty and sensory modality of signals on watchkeeping performance. Journal of Experimental Psychology, 1971, 87, 303-308.
620. Warm, J. S. and Foulke, E. Effects of orientation and redundancy on tactual perception of form. Perceptual and Motor Skills, 1968, 27, 83-89.
621. Warm, J. S., Schumsky, D. A. and Hawley, D. K. Ear asymmetry and the temporal uncertainty of signals in sustained attention. Bulletin of the Psychonomic Society, 1976, 7, 413-416.
622. Watanabe, S. Knowing and Guessing: A Quantitative Study of Inference and Information. New York: John Wiley & Sons, Inc., 1969.
623. Watanabe, S. Creative learning and propensity automaton. IEEE Transactions on Systems, Man, and Cybernetics, 1975, SMC-5, 603-609.
624. Watanabe, S. Norbert Wiener and cybernetical concept of time. IEEE Transactions on Systems, Man, and Cybernetics, 1975, SMC-5, 372-375.
625. Watanabe, S., Fujii, T. and Kamakura, A. Experiments on superinduction. IEEE Transactions on Systems, Man, and Cybernetics, 1978, SMC-8, 401-412.
626. Waxman, S. G. Information content of ensembles of hypotheses. Psychological Reports, 1969, 24, 367-371.
627. Weiner, F. F. Choice reaction time as a function of frequency differences. Perceptual and Motor Skills, 1973, 36, 307-310.
628. Welford, A. T. Fundamentals of Skill. London: Methuen, 1968.
629. Welford, A. T. Skilled Performance: Perceptual and Motor Skills. Glenview, Illinois: Scott, Foresman and Company, 1976.

630. Welford, A. T. Motor performance. In J. E. Birren and K. W. Schaie (Eds.), Handbook of the Psychology of Aging. New York: Van Nostrand Reinhold Company, 1977, 450-496.
631. Welford, A. T. Mental work-load as a function of demand, capacity, strategy and skill. Ergonomics, 1978, 21, 151-167.
632. Welford, A. T., Norris, A. H. and Shock, N. W. Speed and accuracy of movement and their changes with age. Acta Psychologica, 1969, 30, 3-15.
633. Weltner, K. The Measurement of Verbal Information in Psychology and Education. New York: Springer-Verlag, 1973.
634. Wempe, T. E. and Baty, D. L. Human information processing rates during certain multiaxis tracking tasks with a concurrent auditory task. IEEE Transactions on Man-Machine System, 1968, MMS-9, 129-138.
635. Wempe, T. E. and Baty, D. L. Human information processing rates during certain multiaxis tracking tasks with a concurrent auditory task. Proceedings of the 4th Annual NASA University Conference on Manual Control, NASA SP-192, 1969, 199-220.
636. Wetherell, A. The efficacy of some auditory-vocal subsidiary tasks as measures of the mental load on male and female drivers. Ergonomics, 1981, 24, 197-214.
637. Whiston, T. G. Information Theory Revisited. Internal Report, Department of Psychology, University of Manchester, England, 1970.
638. Whiston, T. G. Information Theory and Visual Inspection. Internal Report, Department of Psychology, University of Manchester, England, 1972.
639. Whiston, T. G. Life is logarithmic. In J. Rose (Ed.), Recent Advances in Cybernetics. London: Gordon & Breach, 1972, 265-298.
640. Whiston, T. G. The role of spare capacity in the development of perceptual motor skills. In H.T.A. Whiting (Ed.), Readings in Human Performance. London: Lepus Books, 1975, 34-61.
641. White, D. J. Entropy and decision. Operational Research Quarterly, 1975, 26, 15-23.
642. Wickens, C. D. Temporal limits of human information processing: a developmental study. Psychological Bulletin, 1974, 81, 739-755.
643. Wiegersma, S. Response generation: type of analysis and the limited capacity hypothesis. Acta Psychologica, 1976, 40, 331-342.

644. Williams, J. M., Billings, A., Tripp, D. and D'Allesandro, L. MIA: a program for multivariate information analysis. Behavior Research Methods & Instrumentation, 1980, 12, 387.
645. Williams, L. R. T. Movement time, movement extent and response complexity as determinants of programmed motor control. Journal of Human Movement Studies, 1979, 5, 189-200.
646. Willmer, M. A. P. Information theory and organization structure. Kybernetes, 1977, 6, 277-287.
647. Wing, A. M. Symmetry, Gestalt and information theory: a critique. Quarterly Journal of Experimental Psychology, 1972, 24, 356-358.
648. Wing, H. and Bevan, W. Structure in the classification of stimuli differing on several continuous attributes. Perception & Psychophysics, 1969, 6, 137-141.
649. Wolff, J. G. Frequency, conceptual structure and pattern recognition. British Journal of Psychology, 1976, 67, 3, 377-390.
650. Wolfgang, A. Exploration of limits of information processing in concept identification as a function of sex and background-relevant information. Perceptual and Motor Skills, 1968, 27, 1035-1038.
651. Woodward, D. L., Driscoll, J. M. and Loeb, M. Consistency of information processing on visual and auditory, prothetic and metathetic tasks. Ergonomics, 1976, 19, 131-140.
652. Wyer, Jr., R. S. Category ratings as "subjective expected values": implications for attitude formation and change. Psychological Review, 1973, 80, 446-467.
653. Wyer, Jr., R. S. Changes in meaning and halo effects in personality impression formation. Journal of Personality and Social Psychology, 1974, 29, 829-835.

654. Yavuz, D. Zipf's law and entropy. IEEE Transactions on Information Theory, 1974, IT-20, 650.
655. Ying, C. C. Learning by doing - An adaptive approach to multi-period decisions. Operations Research, 1967, 15, 797-812.
656. Young, J. F. Information Theory. London: Butterworth, 1971.
657. Zelaznik, H. N., Shapiro, D. C. and McColsky, D. Effects of a secondary task on the accuracy of single aiming movements. Journal of Experimental Psychology, 1981, 7, 1007-1018.
658. Zohar, D. Amount and order of redundancy as determinants of continuous tracking performance. Journal of Motor Behavior, 1974, 6, 165-178.
659. Zucha, I. and Samák, I. Notes on the entropy of psychic activity. Studia Psychologica, 1976, 18, 315-316.
660. Zwahlen, H. T. The effects of ethyl alcohol on a driver's skill, visual perception, risk acceptance, choice reaction times and information processing rates. Proceedings of the Annual Meeting of the Human Factors Society, 1974, 116 (abstract).
661. Zwahlen, H. T. and Baird, M. L. Reaction times and derived information processing measures: limitations of their practical use in vehicle operator screening. Proceedings of the Annual Meeting of the Human Factors Society, 1978, 123 (abstract).